THE CHEMIST AND DRUGGIST

ESTAB 1859

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SINGLE COPIES 9d.

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VITAMIN MALTED TOFFEE

In decorated tins, 5/- per doz. nett.

RICH IN VITAMIN B.

A DELICIOUS AND APPETISING SWEETMEAT IDEAL FOR SALE BY CHEMISTS.

Experience DOES Count **MEGGESON & CO., LTD.** BERMONDSEY, LONDON, S.E.16 *Established over 130 years*

MERCUROCHROME

"220" SOLUBLE

Manufactured by

MAY & BAKER

LIMITED

BATTERSEA - LONDON, S.W.11

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SALICYLIC ACID. B.P.

UNIQUE CRYSTAL FORM

There is no finer product made

The GRAESSER-MONSANTO CHEMICAL WORKS LIMITED.

RUABON, NORTH WALES AND LONDON.

MORUETTES

THE ORIGINAL

COD LIVER OIL TABLETS

TO EVERY VISITOR

TO OUR STAND (No. 36) AT THE LEEDS EXHIBITION WE ARE MAKING THIS SPECIAL OFFER.

EACH PURCHASER

OF THREE DOZEN BOXES OF THE MORUETTE COD LIVER OIL TABLETS WILL RECEIVE A SPECIAL BONUS OF

SIX BOXES!



By a specially worked out and ingenious process the Vitamin content of Cod Liver Oil is extracted from the Oil in the form of a concentrate which contains absolutely unimpaired the Cod Liver Oil vitamins in a tasteless form and highly concentrated. Feeding experiments performed on young rats demonstrate conclusively the value of the preparation.

Per 7/- dozen SMALL.

Per 15/- dozen LARGE.

ARTHUR H COX & CO LTD

Manufacturing Chemists

BRIGHTON ENGLAND

A A



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The Advertisement Manager would be pleased to discuss your particular proposition with you personally.



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Every page of the "News of the World" is eagerly read because every page contains something of real interest, whether it be news or sport, social gossip or serial story, stage notes or dress judging contest and your advertisement appearing "next matter" will inevitably get its message home.

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NEWS OF THE WORLD

30, BOUVERIE STREET, LONDON, E.C.4.

AN APPRECIATION

THE FOLLOWING IS AN UNSOLICITED LETTER RECEIVED FROM ONE OF OUR CUSTOMERS:

"I haven't much time for writing to Manufacturers and giving a word in praise when due, but as regards your 'SPECIAL ·890 LIQUID PARAFFIN' I feel I must. The bottle and general finish, and that little detail of having all bottles priced, leaves nothing to be desired.

"All that, and the splendid profit, and the good window show material, makes it well worth handling, and there is no chemist that can pack and turn it out in such a style as you have done.

"Your pack is the last word in presentation to the public. It looks what it is, really Medicinal."



In White Glass Panels or City Flats, with attractive Green and Black Labels.

IN ADDITION TO MEDICINAL PARAFFIN WE HAVE A WIDE AND UP-TO-DATE RANGE OF PACKED DRUGS AND COUNTER SPECIALITIES

DISPLAYING THE SAME STANDARD OF EXCELLENCE

MAY WE QUOTE FOR YOUR REQUIREMENTS?

Write now for samples and prices of Medicinal Paraffin, Malt and Oil, Cod Liver Oil, &c.

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WASHABLE and DOUBLE STRETCH

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LIGHTER — MORE HYGIENIC — MORE COMFORTABLE AND VERY ELASTIC

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Both materials in cream and flesh and at same prices.

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-RASPBERRY VINEGAR-

Specially Prepared for Pharmaceutical Uses.

MADE FROM NEW SEASON FRUIT & CANE SUGAR

Guaranteed Pure. Will not ferment nor deposit.

BOOK NOW FOR WINTER SUPPLIES

SAMPLE AND PRICE ON APPLICATION.

JOHN THOMPSON (Wholesale Druggists 1921) LTD.

27/35 DUKE STREET, LIVERPOOL.

Telegraphic Address: "Drugs, Liverpool." *Telephones: Royal 1434 (5 lines).*



Just one of the many cards sent out with all orders

Skimmed milk is always the same

NO MATTER HOW IT IS SOLD

To serve your customers with Moorland Aspirin means that you are giving a square deal to them and to yourself. To sell 2 x 25's Aspirin at 5½d. all day long won't bring in that essential gross profit which is necessary to cover over-heads and leave a little for your own banking account. Many folks in business lose sight of the importance of average gross profits, and if we examine available figures we find that the gross profit of retailers is too low. One third of them are practically doing business at cost. You know only too well that Aspirin is simply being cut to ribbons. Why not sell, in your own interests, a perfectly reliable and branded product at a protected price? Moorland Aspirin Tablets have a goodwill value, bring regular repeat business and reflect credit upon yourself and your pharmacy. The brand "Moorland" is far too valuable to be associated with anything that would endanger its good name. It means reliability.

Next time you order Aspirin Tablets — specify

'MOORLAND'S'

Made and guaranteed by
W. B. CARTWRIGHT LTD RAWDON NEAR LEEDS
"The home of Moorland Heart Shape"

Another Roboleine

THE FOOD THAT BUILDS THE BODY

Season



about to start! Remember that the cumulative effect of Winter-and-Summer advertising is bound to be great.

WINDOW DISPLAY

will help you to take advantage of this fact: write for particulars.

OPPENHEIMER, SON & Co., Ltd.
179 Queen Victoria Street, London, E.C.4.

"Canst thou not minister to a mind diseased."—SHAKESPEARE.

A MIND free from care and anxiety does not readily fall a prey to "disease." There is no better safeguard against financial worry than the knowledge that one has adequate Life Assurance, and there is no better Company with which to assure than the

STANDARD LIFE ASSURANCE COMPANY

a Mutual Office, established for over 100 years, the stringency of whose valuation basis affords ample security and gives confidence that the present rate of Bonus of

42/- % annual and compound

will be maintained for many years to come.

By arrangement with

THE PHARMACEUTICAL SOCIETY OF GREAT BRITAIN

SPECIAL TERMS are granted to Members.

WRITE TO-DAY FOR BOOKLET "BN," GIVING FULL PARTICULARS.

The STANDARD LIFE ASSURANCE COMPANY

ESTABLISHED 1825

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EDINBURGH

Awards for NEW-MIX WINDOW DISPLAY COMPETITION

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£100 1ST PRIZE — J. H. McELLIN, M.P.S., Iron Market, NEWCASTLE, Staffs.

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STEELE & MARSH (Chemists), 6 Milsom Street, BATH

J. BARKER, M.P.S., 136 Evington Road, LEICESTER

A. ATKINSON & SON (Dispensing Chemists), Cheltenham Mount, HARROGATE

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NEW-MIX
NOW IN TWO SIZES
1/6 AND 2/-

Show this Display for 7 days



SPECIAL TERMS
13 to the dozen
and
£200 in PRIZES
for the Trade

THAWPIT

NON - INFLAMMABLE, GUARANTEED
THE NEW HOME DRY - CLEANER

Write to-day for full particulars of special terms and window display prizes, in connection with Home Dry-Cleaning Week, to:—

THAWPIT LTD., ASTOR HOUSE, ALDWYCH, W.C.2

Maw's Page

For all fashions and all tastes

"Vanitor" Combs

Fashions in hair-dressing may come and go, but the demand for combs of one kind or another goes on for ever.

The "Vanitor" series cater for all fashions and all tastes, and the pharmacist who stocks a complete range of "Vanitor" combs is ready to meet the demands of every customer, and is assured of giving complete satisfaction.

There are "Vanitor" combs in dressing, rake and military shapes, each in horn and galilith, and in various colours. There are "Vanitor" combs for bobbed and shingled hair, each supplied in a dust-proof hygienic envelope. There are pocket "Vanitor" combs in neat attractive cases. There are "Vanitor" Dry Shampoo combs.

The display cases and stock boxes supplied with "Vanitor" combs enable you to show your combs to advantage and prevent loss from damaged stocks. They increase your comb business, and, at the same time, make it more profitable.

Prices of some "Vanitor" combs appear below. For full particulars of the standard series and the range for bobbed and shingled hair, see Maw's sundries list.

Dry Shampoo Comb, black and white, per dozen **9/9**. Retail, each **1/3**.

Pocket Comb (each comb in a case), black and white, per dozen **6/6**; blond and imitation shell, per dozen **7/6**; assorted, one dozen on card, **7/-**. Retail, each **1/-**.

Bobbed and Shingled Hair Series, per dozen **7/6** and **11/6**. Retail, each **1/-** & **1/6**.

Standard Series, Military patterns, per dozen **7/-** to **11/-**. Retail, each **1/-** to **1/6**.

Do. Ladies' Dressing and Rake patterns, per dozen **9/-** to **21/-**. Retail, each **1/3** to **3/-**.

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

GRAD MARE

GLANOID
MEDICINAL PRODUCTS of ANIMAL ORIGIN

SUPREME, ACTIVE, DEPENDABLE.

CORPUS LUTEUM
LIVER
ORCHITIC
LIGATURES
OVARIAN
PARATHYROID
PITUITARY
(W. G. Anterior and Posterior)
SUPRARENALIN
THROMBOPLASTIN
THYMUS
THYROID

AMPOULES, TABLETS, CAPSULES, LIQUORS, POWDERS.

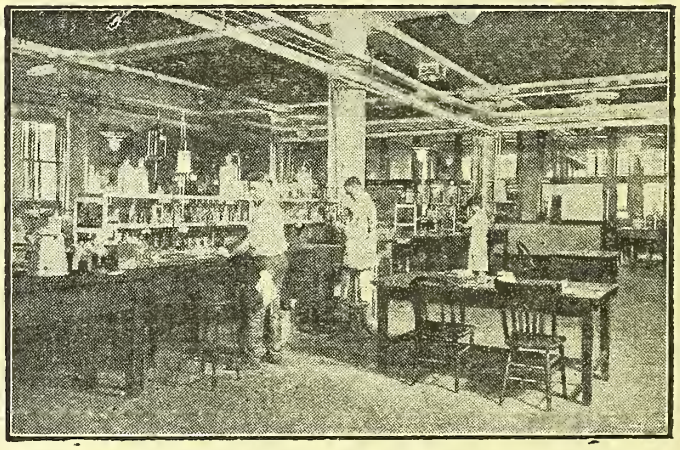
Every process from Pen to finished product controlled in the

ARMOUR LABORATORIES

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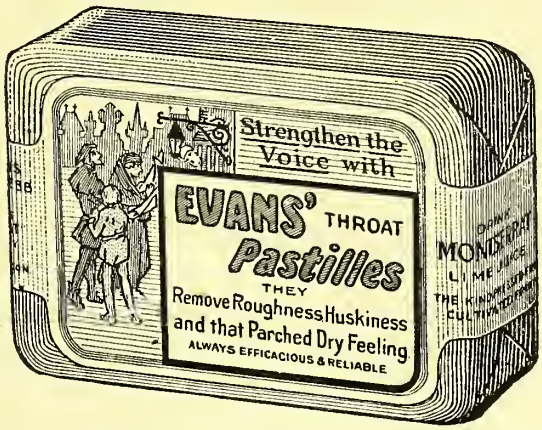
The activity of Glandular products is dependent upon treatment and manufacture immediately after killing. We, with the exceptional facilities at our command, can give you such preparations.

A CORNER OF THE
NEW ARMOUR RESEARCH LABORATORY



The Armour Laboratory is designed solely to develop and carry to a state of perfection those animal products provided by our abattoir in plenty, and which, in their finished condition, are important therapeutic agents.

LABORATORY DEPARTMENT
ARMOUR AND COMPANY LIMITED
QUEEN'S HOUSE KINGSWAY
LONDON, W.C.2.
TELEGRAMS: "ARMOSATA—WESTCENT," LONDON.
TELEPHONE: HOLBORN 6921.



EVANS' PASTILLES

(Arrangements for the coming season)

In addition to an increased advertising campaign during the coming season, we have arranged a co-operative selling scheme, which is based upon giving an increased benefit to the active distributor. Our representative will be giving you particulars on his next visit.

Evans'

EVANS SONS LESCHER & WEBB, LTD.
LIVERPOOL & LONDON

IMPORTANT NOTICE

ERGOAPIOL—(SMITH)

MESSRS. THOS. CHRISTY & CO. are pleased to announce that the Manufacturers have revised their terms for ERGOAPIOL CAPSULES to the Trade on the following more advantageous basis.

TO THE RETAIL TRADE 73/9 PER DOZEN

The package carries a P.M. stamp value 2/-, and by reason of this Chemists will be able to sell this preparation at a price which will yield them *a more satisfactory profit.*

THE ABOVE PRICE BECAME EFFECTIVE ON JULY 1, 1928

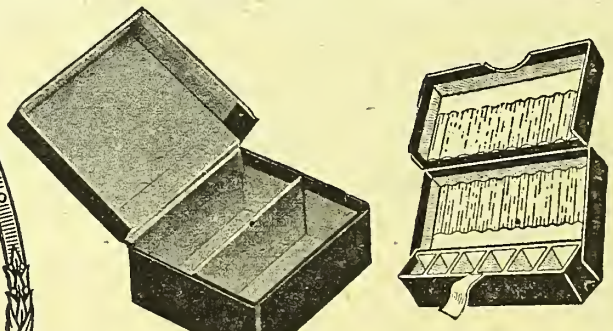
THOS. CHRISTY & CO.
4/12 Old Swan Lane, London, E.C.4



ROBINSON'S *of* CHESTERFIELD *for* CARDBOARD BOXES

ROUND · OVAL · SQUARE · FOLDING

ROBINSON & SONS LTD.
CHESTERFIELD & LONDON



CHEMIST BOXES

We specialise in the manufacture of small boxes for chemist use, and our range of these boxes is large and varied.

May we have the opportunity of quoting you for your requirements when next you are in the market?

ROBINSON & SONS, Ltd.

Manufacturers of ROUND, OVAL, SQUARE AND FOLDING CARDBOARD BOXES,

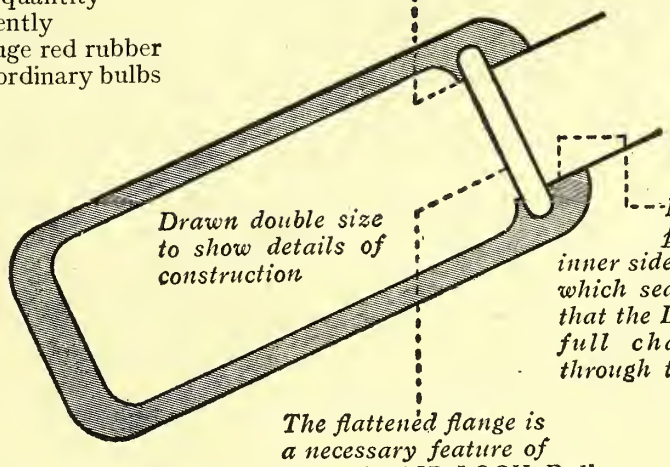
CHESTERFIELD 117

MEDICINE DROPPERS

fitted with the New AYRTON AIR-LOCK BULB

for EYE EAR NOSE

Makes every drip of the medicament available
Projects it evenly and under control to the exact spot desired
Delivers it free from air bubbles and without force or agitation
Holds double the quantity
Will not drip inadvertently
Made of heavy gauge red rubber which outlasts six ordinary bulbs



See how the bulb pushes hard against the glass flange. When finger pressure is applied, all air is expelled through the nozzle only.

Drawn double size to show details of construction

Note the pressure on inner side of glass flange which seals the bulb, so that the Dropper takes a full charge of fluid through the nozzle

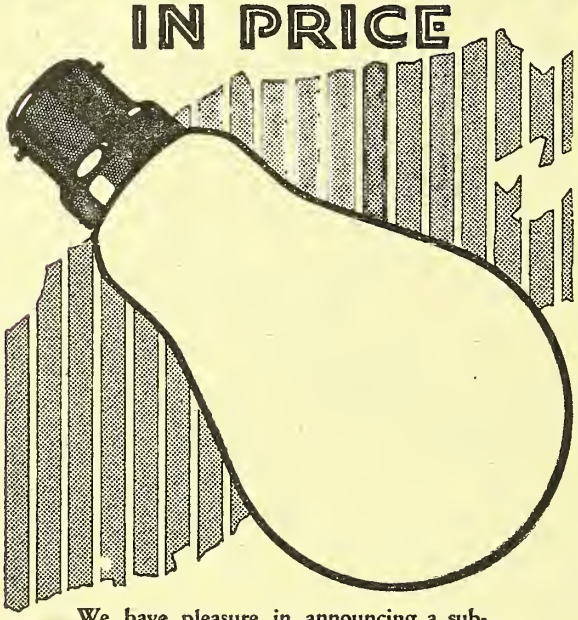
The flattened flange is a necessary feature of Ayrton's AIR-LOCK Bulb

The barrel shape is unique. Bulb is made of finest red rubber, more than twice the thickness of the ordinary bulb

	Figure	All shapes are well modelled, with smoothed rims and nozzles.	Boxed and labelled Per dozen	Boxed and labelled Per gross	Loose Per dozen	Loose Per gross
	26/795B	Straight with bulbous end, for nose, eye or ear. Fitted with Ayrton's Air-lock Bulb	2/9	30/-	1/11	21/-
	26/794	Straight, graduated for medicine, 20 drops. Fitted with Ayrton's Air-lock Bulb	4/6	51/-	3/8	41/-
	26/793A	Bent or curved, with bulbous tube and flanged nozzle for eye. Fitted with Ayrton's Air-lock Bulb	2/9	30/-	1/11	21/-
	26/792	Bent or curved, with flanged nozzle for eye. Fitted with Ayrton's Air-lock Bulb (B.P.C.) (N.H.I.)	2/3	25/-	1/5	15/-
	26/791	Bent or curved for eye. Fitted with Ayrton's Air-lock Bulb	2/2	24/-	1/4	14/6
	26/793	Straight, with bulbous tube, for eye. Fitted with Ayrton's Air-lock Bulb	2/6	27/-	1/8	18/-
	26/795A	Straight, with flanged end, for eye or medicine. Fitted with Ayrton's Air-lock Bulb	2/2	24/-	1/4	14/6
	26/795	Straight, for eye, ear or nose. Fitted with Ayrton's Air-lock Bulb	2/-	22/6	1/2	13/-

AYRTON, SAUNDERS & CO. LTD. :: LIVERPOOL

MAZDA LAMPS REDUCED IN PRICE



We have pleasure in announcing a substantial reduction in the prices of standard Mazda Gasfilled, Vacuum, and Pearl Lamps. Mazda Lamps have always been popular because of their high quality and efficiency—at the new prices they will be more popular than ever.

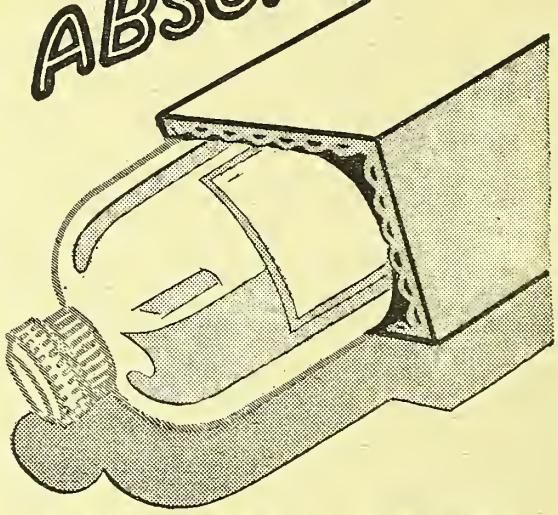
Old and New Prices.				
Watts	100 - 130 volts.		200 - 260 volts.	
	Old	New	Old	New
	Gasfilled.			
25	—	2/1	—	—
40	2/3	2/1	2/8	2/3
60	2/8	2/3	2/8	2/3
75	4/0	3/6	4/0	3/6
100	4/9	4/3	4/9	4/3
	Pearl.			
15	2/2	2/0	2/9	2/2
25	2/2	2/0	2/6	2/2
40	2/3	2/1	2/8	2/3
60	2/8	2/3	2.8	2/3
75	4/0	3/6	4/0	3/6
100	4/9	4/3	4/9	4/3
	Vacuum.			
15	2/2	2/0	2/9	2/2
25	2/2	2/0	2/6	2/2
40	2/2	2/0	2/6	2/2
60	2/2	2/0	2/6	2/2

THE BRITISH THOMSON-HOUSTON CO., LTD.
CROWN HOUSE, ALDWYCH, LONDON, W.C.2.

B T-H

2970 a

Send out your Goods in SHOCK ABSORBERS!



CORRUGATED PACKING MEANS AN INSURANCE AGAINST RISK OF BREAKAGES

¶ IT ADDS 50% TO THE NEAT APPEARANCE OF YOUR GOODS . . . . .

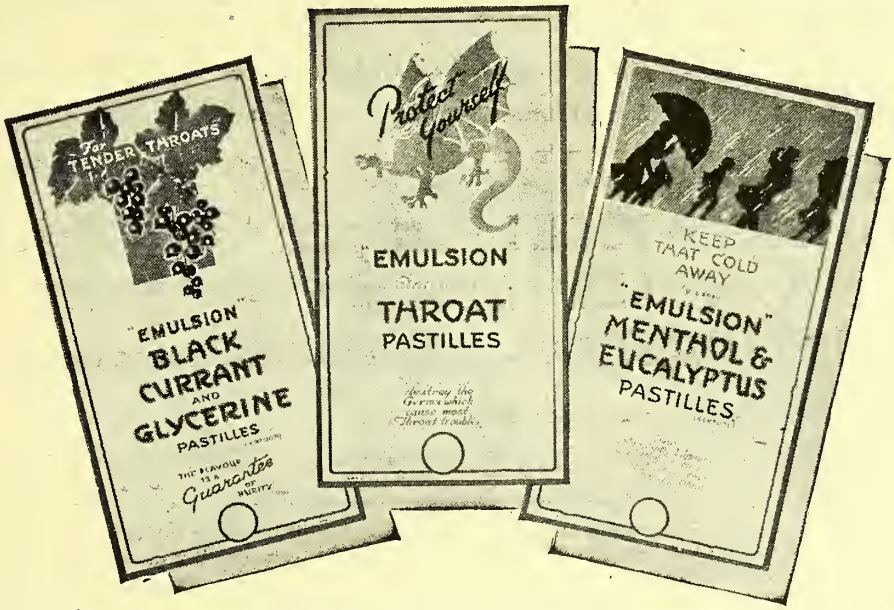
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LONDON REPRESENTATIVE
FRANK·D·WELLER
147 HOLBORN·E·C·
LONDON
Tel Holborn 7346

MANCHESTER REPRESENTATIVE
FRANK·D·WELLER
55 MARKET STREET
MANCHESTER
Tel. Cent 7935.



SHOWCARDS *for* "EMULSION" PASTILLES

THESE striking showcards are now available for Chemists who stock "Emulsion" Pastilles. The cards measure 15"×8" and are printed in green, black and red, on a snow-white surface. To minimise the possibility of warping they are mounted on board of extra thickness. If you would like any of these cards please mention them on your next order.

The PASTILLES themselves need no introduction; that they are known and appreciated by Chemists everywhere is proved by their long popularity and ever-growing sales.

Kerfoot Quality is Chemists' Quality

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents Wm. ALFRED JONES Ltd., West India House, Liverpool.

THOMAS KERFOOT & Co LTD,
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

C/637

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ESSENCES & SYNTHETICS LTD.

WILLIAM C. SLATER, Managing Director.

4 CARLISLE AVENUE, FENCHURCH STREET, LONDON, E.C.3

Royal 0290. *Essynthet—Ald—London*

A few of our latest Creations :—

AMBREINE A sweet Oriental perfume with a delightfully delicate floral nuance.

LILY-OF-THE-VALLEY True to Nature; even in its last traces on evaporation.

VICTORIA VIOLET A very successful composition; a necessity to the creative perfumer.

PARMA VIOLET A standard Violet; indispensable in the absence of the natural flower oil.

WALLFLOWER A beautiful reproduction of the Old English Wallflower.

ROSE An excellent substitute for Bulgarian Otto.

JASMIN A composition giving the pungency as well as the ever-popular floralcy of Jasmin flowers.

¶ **Of the highest possible concentration, and hence very economical in use; perfectly soluble; do not discolour. Suitable for handkerchiefs, perfumes, face powders, vanishing creams, brilliantines, toilet waters, bath salts, soaps. Samples cheerfully sent by return of post.**

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Works: GRASSE (France) & BEYRUT (Syria).

Essential Oils——————Synthetics.
All Raw Materials for Perfumery.

Absinth	Laurel
Almond, bitter, [S.A.P.	Lavender
Angelica	Lemon
Basil	Mace
Bay	Melissa
Bergamot	Neroli big and Syn.
Bois de Rose femelle	Orange
Cajnput	Otto de Rose
Caraway	Patchouli
Cinnamon	Peppermint
Cloves	Rosemary
Copaiba	Rue
Costus	Sandalwood
Cubeb	Spike Lavender
Fennel	Tansy
Geranium	Tarragon
Honey	Thyme
Hyssop	Vetivert

Olive, Peach Kernel, Sweet Almond Oils
Floral Waters.

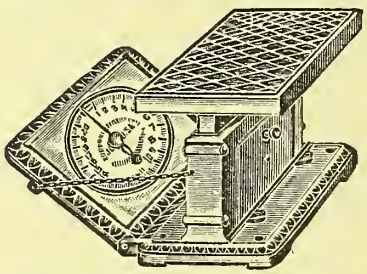
Wholesale and Export only.

LAUTIER FILS, Ltd., 4 Denman St., London Bdg., S.E.1
Tel. Add: "LAUTIERT, PHONE, LONDON." Telephone: HOP 2819.

THE "JARASO"

PERSONAL WEIGHING MACHINE

BRITISH MADE



BALL BEARINGS

Weighs from 1 lb. to 20 stone. Automatic. No weights required. Weight of Machine 20 lbs.

EXPORT PRICE 28/6 Cases Free F.O.B. LONDON

(Smallest number shipped six machines.)

This Machine can only be sold for export to BRITISH COLONIES

ALBERT C. SHOPPEE, Ltd.

(Wholesale and Export only)

Belmont St., Chalk Farm, LONDON, N.W.1

To-day's best investment—a case of

R.S.M

(Reigate Standard Mint)

English re-distilled and blended PEPPERMINT OIL

TRADE MARK

White, Tomkins & Courage Ltd.

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Telegrams : Esswhite, Reigate. *Telephone : Reigate 480.*

Chemical Works "Flora"

DUBENDORF, ZURICH - SWITZERLAND

Manufacturers of

SYNTHETIC & AROMATIC CHEMICALS

SAMPLES ON APPLICATION. **and**

CHLOROPHYLL

OIL AND SPIRIT - - SOLUBLE.

STOCKS HELD IN LONDON.

Samples and particulars from—

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.

St. Mary-at-Hill, London, E.C.3



ALLWOODS' CARNATION PERFUME AND TOILET REQUISITES

Of Superlative Quality

Daintily Packed

Liberal Discount

Good show matter.
Steady advertising.
Carriage paid.

Produced and marketed by the World's leading growers of Carnations.

Write for Trade Prices and full information to :—

Allwood Bros

The Leading Carnation Raisers and Specialists in the World.

HAYWARDS HEATH, SUSSEX



Shingled Heads Need More Shampoos

Here is a range of Shampoo Powders—showing you an unusual profit—made by a firm that specialises in scientifically compounded preparations for the hair. These Shampoos have been used for years in a Bond Street Hairdressing Salon, yet they retail at little more than half the usual price for a good shampoo.

Shampoo Powders are a profitable and quick-selling line now that shingled heads are in the majority, for shingled hair needs regular and frequent washing to keep it in condition. And these Shampoos are so exceptionally good and reliable that customers come back for them again and again. They bring you both profit and goodwill.

	Retail Price	*Net Wholesale Price*
Stewart's Hairtone Shampoo Powder..	3d. each or 1/6 for 7 sachets	12/- per dozen boxes of 7
Free from excess of alkali for any kind of hair.		
Stewart's Goldentone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
A Camomile preparation for blonde hair which brightens and beautifies.		
Stewart's Silvertone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
Specially prepared to keep grey hair from going yellow.		
Stewart's Hennatone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
For brown hair—gives richness of tone.		
Stewart's Pinetone Shampoo Powder..	4d. each or 2/- for 7 sachets	14/- per dozen boxes of 7
Medicated and antiseptic for impoverished hair.		

MADE BY THE MANUFACTURERS OF

NUCTONE
FOR GREY HAIR

STEWART, GOODALL & DUNLOP, LIMITED,
4 Dering Street, London, W.1.
Irish Free State Depot: 31 Wicklow Street, Dublin.

Obtainable from your usual Wholesalers or direct from
J. C. GAMBLES & CO., LTD.
211/215 BLACKFRIARS ROAD, LONDON, S.E.1.

Beethams
Larola
Toilet Preparations

now attractively packed



Link up with the
NATIONAL ADVERTISING
Increase your sales and profits

Special display terms on request from :—
M. BEETHAM & SON
DEPT. C.D. CHELTENHAM.

DAWSON'S DENTIFRICE

COST **3/-** doz.
SELLS **6d.**



Profit **100%** on Cost

IN ALUMINIUM TINS. 9d. size 4s. 6d. per doz.

FREER'S LYSOL SHAVING STICK,
FREER'S DENTAL CREAM,
and several other lines.

Carriage and Packing FREE. Monthly a/cs.
SPECIAL QUOTATIONS for WHOLESALERS, SHIPPERS and LARGE BUYERS.
Write for Sample Tins.

FREER'S MFG. CO. LTD.
6/7 Norton Folgate, Bishopsgate,
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Phone: Bishopsgate 2209.

Cussons' Guarantee



Write for prices and particulars of our well-known Toilet luxuries, including "White Cross" Baby Powder, and Baby Soap, and the new vogue in Perfumery Suites, "Mists of the Moon."

We invite you to visit our Stand, No. 41, at the Leeds Chemists' Exhibition.

Cussons

KERSAL VALE, MANCHESTER

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Keep pace with PAPIER POUDRÉ and POPPOEA





Show them on your Counter and in your window and take your share of this steady stream of **Publicity.**



Woman.
My Home.
Home Chat.
Home Notes.
Picturegoer.
Passing Show.
Modern Woman.
Woman and Home.
Theatre and Film.
Woman's Kingdom.
Woman's Pictorial



The cinema is only one of many occasions when Papier Poudré comes in handy. One fragrant leaf will remove all shine and the grime of foggy weather—applying exactly the right amount of powder. No—"Where's my puff? Have you got a mirror? Do lend me your powder." You can rely on Papier Poudré entirely—it ensures you looking your best. Obtainable at all chemists, hairdressers and stores, in Rachel, Rose, White and Sunburn tints at 4d., 8d., and 1/4 per book

PAPIER POUDRÉ

46, BAKER STREET, LONDON, W.1.



On Holiday!

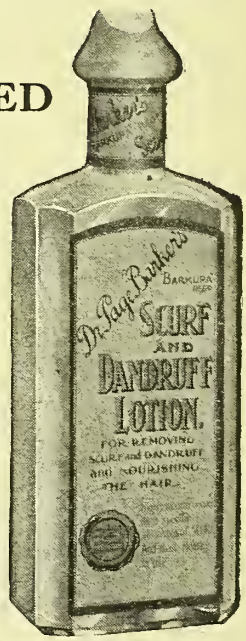
PAPIER POUDRÉ

Window Display Terms for "PAPIER POUDRE."
In addition to the Trade discount of 33⅓%.
7½% Discount upon orders for 6 Doz. 8d. size (or equivalent in other sizes).
10% Discount upon orders for 12 doz. 8d. size (or equivalent in other sizes).
2½% for Cash on receipt of Goods. Net Cash 30 days.

Quantity.	Or equivalent in other sizes	Net Cost per Doz.	Your Cost.	Sells for	Your Profit	Percentage of Profit on Selling Price.
		s. d.	£ s. d.	£ s. d.	£ s. d.	
6 doz.	8d. P.A.T.A.	4 9½	1 8 10	2 8 0	19 2	40%
12 doz.	8d. P.A.T.A.	4 8	2 16 2	4 16 0	1 19 10	41½%

Carriage Paid to Destination.
The above terms are conditional upon a Window Display for 14 days.
From all Wholesalers, or direct from the Sole Manufacturers:
PAPIER POUDRE, LTD., 46 BAKER STREET, W.1

Every Bottle is GUARANTEED



EVERY bottle of Dr. Page-Barker's Scurf Lotion bears a positive guarantee that it will eradicate scurf or the purchase price will be refunded. This makes it the easiest to sell of all hair and scalp specifics. And the profit is handsome.

18/- per Doz.
Retail - 2/6

With every order for 3 dozen you get three 2/6 bottles as bonus, handsome metal show-stand, and attractive showcards.

Dr. Page-Barker's Scurf Lotion

Thos. CHRISTY & CO., 4-12 Old Swan Lane, LONDON, E.C.4.

MORGAN'S POMADE

A genuine preparation which performs all that it claims—namely, to restore grey and faded hair to its original colour, to strengthen the hair against further danger of becoming dry and thin, to remove and prevent the recurrence of scurf and all unhealthy conditions of the scalp.

Thirty-five years' solid reputation. On the list of the P.A.T.A.

Retail ***1/9*** per pot; ***3/3*** per pot.
Wholesale ***14/-*** per doz.; ***26/-*** per doz.
1-lb. jars for Saloon use at ***6/3*** per jar.

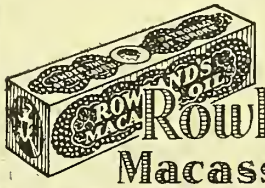
Obtainable from all the leading Wholesale Houses, or direct—
THE MARIE ANTOINETTE CO. 149 JUNCTION ROAD LONDON, N.19
(Note New Address)

For 135 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.

RETAIL
3/6, 7/- & 10/6
P.A.T.A.



Rowland's Macassar Oil

Red for dark hair
Golden for fair or grey hair

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1
RM5T

We supply the exquisite L'Aiglon

POCKET SPRAYS
LIP STICKS
POUDRIERS &
CREAM BOXES

MADE BY aromys OF PARIS

In chased gilt, galalilh, enamel, mother-of-pearl, silver, etc.
They can be supplied separately or in cases holding two, three or four pieces.

If you will drop us a line our representative will call at the earliest possible time.

SPURWAY et Cie. Ltd. 89 Great Eastern Street LONDON, E.C.2

Phone: Bishopsgate 1372. *Wires: "Neroli, London."*

MERCOLIZED WAX
— : for the Complexion : —
and
STALLAX
— : a Shampoo : —

TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from:

DEARBORN (1923) LIMITED
37 GRAY'S INN ROAD, LONDON, W.C.1.

TOOGOOD'S

BAY RUM

AND

HAIR PREPARATIONS

Packed in Gilt Capped Flasks



No. 4863.

	Per dozen. 4 oz.	8 oz.
Bay Rum	10/6	15/6
Bay Rum and Cantharides	10/6	15/6
Bay Rum and Capsicum Hair Tonic	10/6	15/6
Bay Rum and Quinine	12/6	20/-
Bay Rum Rosemary and Quinine Hair Tonic	10/6	20/-

MANUFACTURED BY

WILLIAM TOOGOOD

LIMITED,

77 SOUTHWARK STREET

LONDON, S.E.1

Litto

PREPARATIONS FOR THE HAIR

Show about **100%** profit.

These preparations are well known to the public and are in constant demand. Repeat orders follow because LITTO always gives satisfaction. Get your share of the business and the credit it will bring to your establishment. LITTO preparations are backed by a guarantee; prices are stabilised and LITTO is *not* sold in bazaars.

On the P.A.T.A. List.

LITTO preparations are obtainable from Messrs. Osborne, Garrett & Co. and all the leading Wholesale Houses, or direct from:—

The LITTO LABORATORIES

29 Highbury Grove, London, N.5.

A new Nildé sifter box

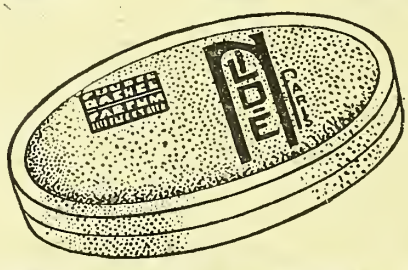
(HANDBAG SIZE)

Modernised and improved, this extra flat sifter box with puff is of new design outside and in, leak-proof, and the powder cannot patch or break. It contains as much powder as the well-known red and gold striped box, perfumed with our new creation, l'Ille Heureuse.

33⅓% *discount off selling price.*

In 7 shades:— rachel, naturelle, ocre rosé, rose, basanée, indienne, blanche.

1/- P.A.T.A.



Distributed in the U.K. by **BROOKS & WARBURTON, LTD.**

40-42 LEXINGTON STREET, W.1.

HEADS UP!

THE NEW WAY IN SHAMPOOING

What was the old way of shampooing? Heads held down almost the whole time the hair was being washed. How uncomfortable. How tedious. How difficult to obtain a real cleansing of hair and scalp.

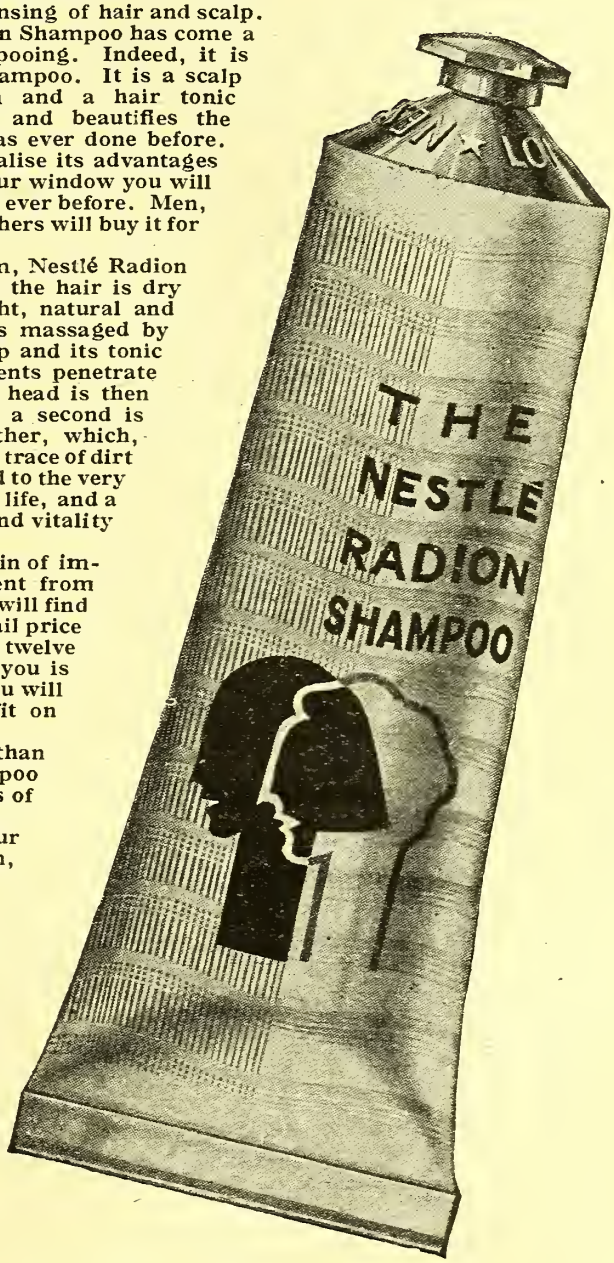
With Nestlé Radion Shampoo has come a revolution in shampooing. Indeed, it is more than a new shampoo. It is a scalp massage preparation and a hair tonic besides. It cleanses and beautifies the hair as no shampoo has ever done before. Women will quickly realise its advantages and if you show it in your window you will sell more shampoos than ever before. Men, too, will use it. And mothers will buy it for the whole family.

Produced in liquid form, Nestlé Radion Shampoo is applied while the hair is dry and the head in an upright, natural and comfortable position. It is massaged by the finger tips into the scalp and its tonic properties and cleansing agents penetrate into every pore. The whole head is then sprinkled with water and in a second is covered with a luxurious lather, which, when rinsed, carries away every trace of dirt and grease. The hair is cleansed to the very roots, the scalp tingles with new life, and a glorious sensation of freshness and vitality is experienced.

Nestlé Radion Shampoo is certain of immediate and enthusiastic comment from every one of your customers. You will find it an amazing selling line. The retail price is 1/9 per tube containing enough for twelve luxurious shampoos. The price to you is 14/- per dozen. Work this out and you will find yourself with a handsome profit on every sale.

Every Chemist who orders not less than one dozen tubes of Nestlé Radion Shampoo will receive a special introductory bonus of ¼ dozen tubes free of charge.

Send your order at once through your wholesaler while this offer remains open, or fill in and post the coupon below.



COUPON WORTH OVER 5/-

To C. Nestlé & Company, Limited,
48 South Molton Street, London, W.

Please send 1 dozen Tubes Nestlé Radion Shampoo at 14/- per dozen, together with free bonus of ¼ dozen tubes and Radion Shampoo Show Card.

Name_____

Address_____

_____

Every

MASON PEARSON *HAIR-BRUSH*

is a Salesman !

Every "*MASON PEARSON*" you sell is a fertile seed for future business. Wherever the "*MASON PEARSON*" is used it creates demand. New customers become regular customers, and regular customers bring new customers. Stock the "*MASON PEARSON*" and you will enjoy an ever expanding circle of progressive business.

The range of colours and styles enables you to recommend the "*MASON PEARSON*" for every hair brushing need, and for every individual taste. It is the best brush for men, women and children.

There is a "SMALL STANDARD" size, of very fine quality, retailing at the popular price of 12/6, and yielding a handsome profit to you !

If your window display needs renewing write us for further show matter. A generous supply will be sent immediately.

The brushes are made in eight models retailing from 3/6 to 18/6, all subject to generous discounts. Can be supplied through your usual wholesaler.



MASON PEARSON SELLING AGENCY, LTD.
59 NEW OXFORD STREET,
LONDON, W.C.1.

"There's certainly something in that," said Watt—

When the steam blew out as the kettle got hot.
Men say the very same thing to-day
When they go in for shaving the 'Daymark' way.

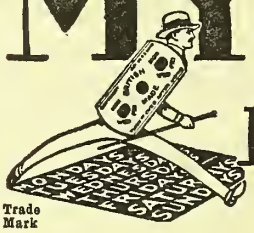


Discoveries Ancient and Modern (1)

The Trade agrees, there *is* something in Myatt Blades—quick sale, for instance, and good profit. The busy Autumn season has started, now is the time to stock up. Send an order to your wholesaler and ask for free display material.

5 Blades 1/3
LESS 33⅓%
SHOWING A PROFIT OF
50% ON COST
MADE IN ENGLAND.

MYATT



PATENT DAYMARK
Blades
FOR GILLETTE TYPE RAZORS ONLY

Trade Mark

W. J. MYATT & CO., Ltd.
Argent Works, BIRMINGHAM
London Showrooms: 94 HATTON GARDEN, E.C.1

"ODENTIC" PLATE BRUSH



Regd. No. 417637.

From all Wholesalers.

Counter Display Box with every 3 dozen.

Manufacturers:

W. R. Speer & Son
(EST. 100 YEARS)
215 DALSTON LANE - - LONDON, E.8

HAVE YOU STOCKED
NESTOL
THE WONDERFUL
BABY HAIR CURLER?
Write for trade terms to
C. NESTLÉ & CO., LTD.
48 South Molton Street,
LONDON, W.1

AMAMI

Elderflor
TOILET SERIES

Steady public advertising will attract new customers

ORDER
from your usual Wholesaler:

	per doz.
1/3 Vanishing Cream in pots ...	10/-
6d. „ „ in tubes ...	4/-
1/3 Skin Food ... in pots ...	10/-
6d. „ „ ... in tubes ...	4/-
1/- Face Powder in 4 colours ...	8/-

Display the attractive "Elderflor" packages and take advantage of the rising demand. Generous profits are offered to chemists and special discount for window displays.

Write to-day for price list, attractive cut-outs and showcards to

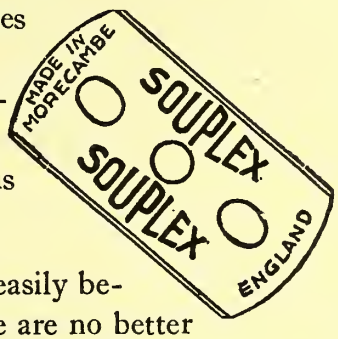
PRICHARD & CONSTANCE
(Manufacturing) LTD.
11 BROAD STREET
LONDON
W.C.
2.

R-33

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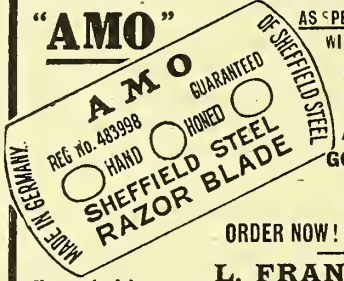
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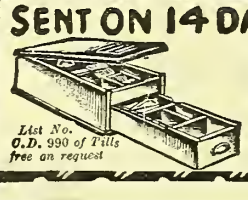
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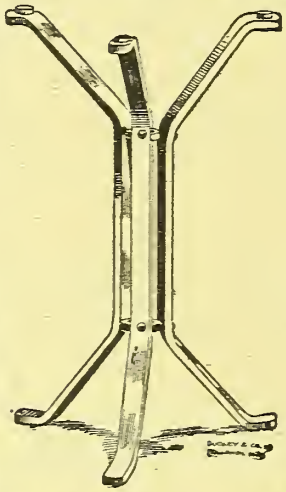
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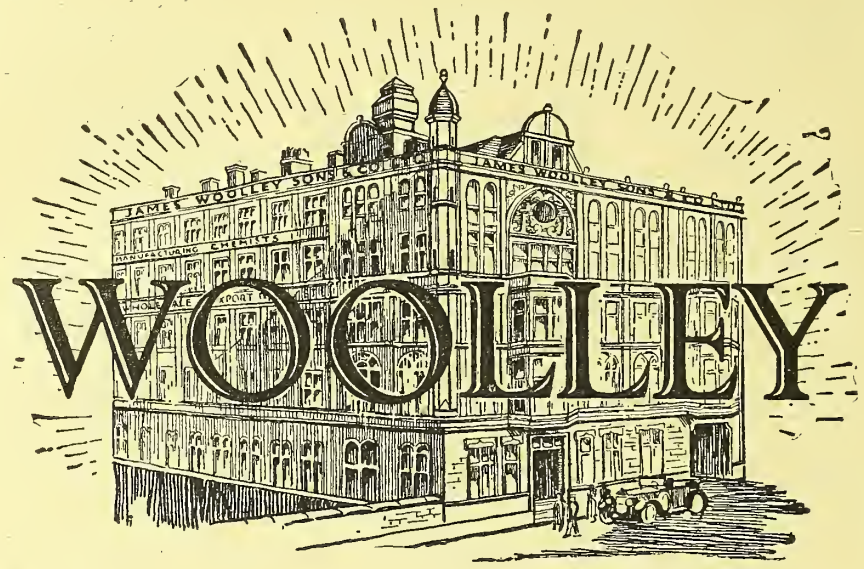
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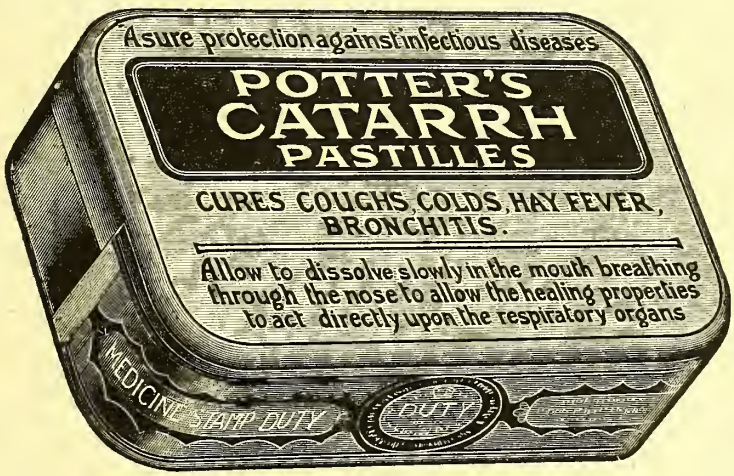
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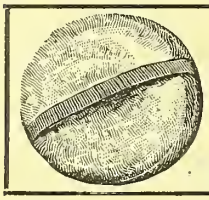
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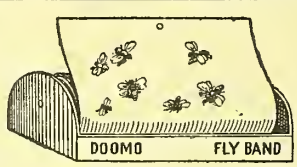
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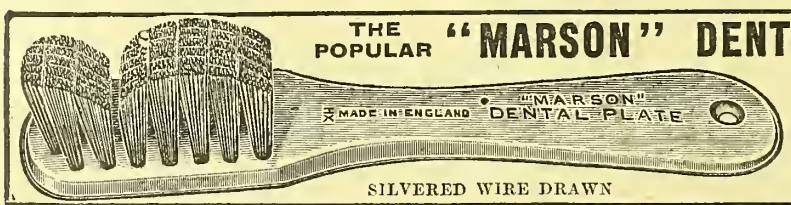
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"C. & D. Diary," 1929

"Known, Admitted and Approved" Remedies

The publication of *The Chemist and Druggist Diary*, 1929, which will take place in December, affords a unique opportunity of registering formulas for "known, admitted and approved" remedies, which can then be sold by chemists free of medicine-stamp duty, provided the appropriate reference to this standard work is given on the label of the preparation. It is an exceptional opportunity for chemists who require to make revisions rendered necessary by changes in poison law or developments in pharmacy. It is necessary that formulas, either new or modified, with the title under which the article is to be sold, should be submitted **not later than October 15** for inclusion in the *Diary*. In view of the large number of formulas received and of the fact that each year many chemists overlook the date fixed, we desire to point out that part of the *Diary* goes to press a few days after. Consequently we cannot publish any formulas received after the date mentioned. Formulas, which must be written on one side of the paper only, should be addressed to the Editor, *C. & D.*, 42 Cannon Street, London, E.C.4.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

London Chemists' Golfing Society

On September 6 the London Chemists' Golfing Society held a meeting at Crews Hill golf course. There was a big attendance, and the competitions were very keen, Mr. T. Johnson winning the Captain's prize and Mr. D. M. Rees the Carmichael trophy. The leading scores were:—

Captain's Prize		*Carmichael Trophy*	
T. Johnson	79—6=73	T. Johnson	all square
C. H. Maile	93—18=75	D. M. Rees	1 down
W. Main	84—8=76	C. H. Maile	2 down
M. W. Carmichael	84—7=77	W. M. Ballantyne	2 down
A. W. Daniel	87—8=79	M. W. Carmichael	2 down
C. E. Harrod	89—10=79	W. Main	3 down
D. M. Rees	88—8=80	A. W. Daniel	4 down
R. A. Daniel	85—4=81	C. E. Harrod	4 down
L. R. Hayne	99—18=81	R. A. Daniel	5 down

After the competitions the members assembled in the club-house, and gave Mr. T. W. D. Turner a welcome on his return from America.

Birmingham

There are 2,000 children suffering from rheumatism in Birmingham, says a circular issued by a Birmingham society for the care of invalid children.

Uffculme, built by the late Mr. Richard Cadbury, has ceased to be a war hospital and is to revert to the city as a school for invalid children. It is the gift of Mr. and Mrs. Barrow Cadbury, who have added the surrounding land.

Liverpool

Owing to the fine holiday weather, photographic chemists report good business.

Thompson & Capper, Ltd., Lord Street, are making a window display of their Yeast Tablets and of photographic materials.

A recent letter from Ayrton, Saunders & Co., Ltd., to the Ministry of Labour Employment Exchange, Liverpool, in reply to the Prime Minister's recent appeal to employers, contains the following:—"We should like to say that we ourselves employ several hundreds of hands and also that we are on the King's Roll. . . . The number of disabled on our staff is 10 per cent. of the whole number of men employed. . . ."

Sheffield

Some local doctors are issuing duplicate prescription forms; these should not be accepted, as payment will be refused.

Mr. H. H. Greenfield, chemist and druggist, who was formerly in business in Sheffield, is opening a pharmacy at Doncaster.

Mr. F. W. Hornby, chemist and druggist, has retired from the post of pharmacist at the South Yorkshire Mental Hospital, Sheffield, after thirty-two years' service. He is succeeded by Mr. A. Ross, formerly of the Gloucestershire Royal Infirmary. Mr. Hornby has been presented with a piece of silver from the medical staff, and numerous gifts from the clerical and nursing staffs. A native of Hull, he served his apprenticeship in that district. After qualifying he became junior dispenser to Manchester Royal Infirmary, and afterwards head dispenser to Salford Royal Hospital. From there he came to the South Yorkshire Mental Hospital in 1896. When the hospital was taken over by the military authorities in May 1915, Mr. Hornby was chief dispenser for five years, with the rank of Quartermaster-Sergeant. Mr. Hornby is actively interested in sport, and is also associated with archæological research.

Miscellaneous

TRADES EXHIBITION.—A trades exhibition is to be held in the Town Hall, Dewsbury, from September 29 to October 6, under the auspices of the local chamber of trade.

EXPLOSION.—An explosion which occurred at the synthetic ammonia and nitrate works of Imperial Chemical Industries, Ltd., Billingham, on September 9, resulted in the death of two men. Several others were injured.

CARNIVAL AWARD.—At a carnival held at Melksham, recently, the first and second prizes in the class for commercial advertising cars were awarded to Annal & Johns, chemists. The first prize was in respect of a display of Drummer dyes, and the second for Amami preparations.

LONG SERVICE AWARDS.—Awards for long service were received by employees at Fleetwood Ammonia Soda Works and Preesall and Burn Naze Works, on August 30, 217 gold and silver watches and medals being presented by Mr. J. Rogers, a director of Imperial Chemical Industries, Ltd.

FACTORY INSPECTION.—The Home Secretary has appointed a Committee, with Lieutenant-Colonel Sir Vivian Henderson, M.P., as chairman, to consider the reorganisation of the factory inspectorate. The secretary of the Committee is Mr. L. N. Blake Odgers, Home Office, London, S.W.1, to whom all communications on the subject should be addressed.

AN ALKALOIDAL MYSTERY.—A curious affair at Darwen, where children having eye treatment at the local clinic lost the use of their limbs after lotion had been dropped into their eyes, is stated to have been explained by the county analyst. The analyst's report indicates that 3 per cent. of homatropine was missing, and that in its place some other alkaloid, the name of which is not yet definitely ascertained, had been used.

FUEL CONFERENCE.—A conference on power transmission and fuels, supported by forty-five countries, is to be held at the Imperial Institute, South Kensington, London, S.W., on September 24-October 6 inclusive. The Society of Chemical Industry has the arrangements in hand. Particulars may be obtained from the General Secretary, World Power Conference, 36 Kingsway, London, W.C.2.

IN THE COURTS.—At Manchester City Police Court, on September 5, Lucy S. Taylor, chemist and druggist, Lower Moss Lane, Hulme, and Doris I. Chang, her assistant, were each fined £5, with costs, for having sold liquid ammonia in a bottle not distinguishable by touch and not duly labelled.—At Pontefract, recently, two boys were bound over on a charge of breaking into the shop of Taylors' Drug Co., Ltd., and stealing goods to the value of £3 11s.

FIRES.—The following outbreaks of fire have been recorded since our last report :—There was an outbreak of fire on September 6 at the premises of The United Sponge Co., 41 Royal Mint Street, London, E.1. The flames were confined to a storeroom and were soon extinguished.—An outbreak of fire occurred on September 6 at the premises of Evan Williams & Co., Ltd., toilet preparations manufacturers, 8 North Court, Chitty Street, London, W. Only slight damage was occasioned.

OUTING.—The members of the Ipswich and Suffolk Branch of the Pharmaceutical Society were recently fortunate in having the opportunity of taking a tour round the Ipswich Sugar Beet Factory. The party attending numbered nearly forty. The process of sugar manufacture was fully explained by a representative of the company, and illustrated by specimens of the products during the various stages. The tour lasted nearly two hours, concluded with a visit to the laboratories, and was much appreciated.

Irish News

Pharmaceutical Society of Ireland

The latest dates for making application for the October examinations are :—Preliminary, Thursday, September 20; Registered Druggist, Tuesday, September 25; Licence, Wednesday, September 26; Pharmaceutical Assistant, Monday, October 1.

Brevities

At a recent meeting of the Executive of the Belfast Chamber of Trade the President extended a welcome to Mr. S. McLoughlin on taking his seat as representative of the chemists.

"Medicine in Ancient Erin" was the subject of an interesting address to the Dublin Rotary Club given on September 10 by Mr. W. Boulton Conyngham (Hayes, Conyngham & Robinson, Ltd.). Referring to the ancient sweating baths, he said he had been informed that in Germany they are building similar baths and calling them "Irish sweating baths." This was bridging over a big space of time. Appreciation of Mr. Conyngham's address was expressed by various speakers, including the Rev. Dr. Hanna, who said that in co. Antrim the belief in charms still existed.

Scottish News

Brevities

In the Edinburgh Sheriff Court, recently, Man Loong, a fireman, was fined £3 for having in his possession 3 lb. of raw opium.

Mr. T. Harley, manufacturing chemist, Perth, has circularised the trade that correspondence concerning "Rodine" should in future be addressed, Rodine Works, Perth (P.O. Box 5). The office address is 55 South Methven Street, Perth.

The Edinburgh Chemists' Golf Club held their eighth outing of the season over Cammo golf course on September 5, when scores were taken for the Pinkerton Gibson trophy. The following led :—(1) W. A. M. Houston, 78; (2) Malcolm Scott, 79; (3) H. D. Robson, 80. *Second Class* : (1) E. Brindle, 82.

On September 8, during the week-end holiday in the meeting of the British Association at Glasgow, an interesting excursion was arranged for botanists to Benmore, Argyllshire. A memorial hut to Sir Isaac Bayley Balfour, the botanist, was opened by Sir Herbert Maxwell. The hut is panelled with wood representing every variety of timber grown on the estate.

The annual competition for the Travellers' trophy of the Scottish Chemists' Bowling Association took place on September 5, at Rutherglen bowling green. There was a fair turnout of wholesale and retail chemists from all parts of Scotland. After a very keen contest Mr. A. Mungall, Pittenweem, won the trophy by beating his opponent, Mr. A. Spence Culbert, Airdrie, by two shots.

At Paisley Sheriff Court, recently, six charges of fraud were preferred against Alexander Miller, hairdresser, Gardner Street, Glasgow. It was stated that the accused had visited shops and induced persons to buy worthless packets of shampoo powder, stating that the packets contained numbers and that the holder of the lucky number would be paid £1 1s. by a chemist. Sentence of thirty days' imprisonment was imposed.



LAMBETH DELFT DRUG POTS RECENTLY SOLD AT AUCTION, INSCRIBED "M.H. 1684" AND LABELLED RESPECTIVELY
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These came from the oldest Pharmacy in Ireland, established in 1684 and now carried on by J. Evans, Ltd., in Dawson Street, Dublin.

Inquests

At Wellington, Somerset, recently, an inquiry was held concerning the death of Henry C. Gallup, described as a wealthy young man residing as a patient at the house of a local medical practitioner. The doctor stated in evidence that some time previously he had found Gallup "prowling about the surgery." It was shown that death was due to strychnine poisoning, and a verdict of "Suicide while of unsound mind" was given.

An inquest was held at Epping, on September 9, on the body of Mary Wiseman, housekeeper to Captain A. V. Meeke, M.R.C.V.S. It was stated that the cause of death was a very large dose of hydrocyanic acid. The coroner remarked: "I do not know what is the general practice among veterinary surgeons, but I hope you will take steps to put such dangerous poisons under lock and key." A verdict of "Suicide while temporarily insane" was returned.

A verdict of "Suicide while of unsound mind" was given at Birmingham, recently, at the close of an inquiry concerning the death of Mr. Douglas A. Denham, a company director, who committed suicide in a Birmingham hotel. Mr. Charles Standen, chemist and druggist, manager of the Walsall branch of Needhams, Ltd., stated in evidence that Mr. Denham, whom he knew as a customer, had purchased potassium cyanide with the declared object of killing wasps.

An inquest was held at Droylsden, Manchester, on August 29, on the body of Mr. A. L. Crabtree, chemist and druggist, Ashton New Road. Mr. Robert Ashworth, assistant to Mr. Crabtree, stated that on returning from his holiday on August 27 he found the shop locked, and on obtaining admittance he found Mr. Crabtree dead in a bedroom. Dr. White deposed that death was due to syncope, consequent upon myocardial degeneration, and the coroner returned a verdict of "Death from natural causes."

The West Surrey coroner concluded, on September 6, an inquiry concerning the death of Mrs. Elizabeth M. Hewitt, Haverstock Hill, London, N.W. Evidence was given by Mrs. Gwendoline McMillen to the effect that she and Mrs. Hewitt had been patients at a mental hospital. Each of them purchased 225 aspirin tablets with the idea of committing suicide: witness, however, took only a few of the tablets. The jury returned a verdict of "Suicide while of unsound mind," and found there was no agreement to commit suicide.

An inquest was concluded at Barrow-in-Furness, on September 5, on the body of Vera W. Jackson, aged ten, who died in the North Lonsdale Hospital on July 29. Dr. Carson gave evidence of the findings of a *post-mortem* examination which he conducted, and said that the report of the Clinical Research Association showed that zinc had been found in poisonous doses in the tissues. The witness referred to cases in which water that had been stored in galvanised vessels became poisoned, and added that it was a peculiar fact that if water was stored in such a vessel for a long time it became less poisonous, except at the bottom. In this case it may have been scraped from the bottom of a vessel. The coroner, summing up, said he found that the child died from zinc poisoning.

The Islington (London) coroner opened, on September 10, an inquiry concerning the death of Mrs. Beatrice Findall, Mitford Road, N. The widower stated that the deceased had for years suffered from asthma, for which she had been given injections. He had given her injections himself, friends also had, and sometimes she administered them herself. On September 7 he gave her an injection; it relieved her somewhat, but in a few seconds she collapsed and died. The deceased's medical attendant stated that he had warned her not to use these injections so frequently. Dr. McKinstry, pathologist at the Royal Northern Hospital, who made a *post-mortem* examination, said that death was due to syncope from adrenlin administration. The inquiry was adjourned.

At Newcastle-on-Tyne, on September 11, an inquiry was held concerning the death of Eliza Thompson, Willington Quay. Evidence was given to the effect that the deceased had been a patient at Newcastle Infirmary, and she was told to take some barium sulphate. Her daughter procured an order from a relieving officer for the salt and went to a shop for it; she was served with barium sulphide instead of barium sulphate. The patient was attended by a doctor and taken to Newcastle Infirmary, where she died. Mr. Charles Bloxam, F.I.C., public analyst, said that he tested the contents of the stomach and other organs, and found soluble barium sulphide. He did not think that it would be easy to make a mistake between the two, as one was white and odourless and the other yellow with an odour like rotten eggs. In artificial light a mistake might be made, but the labels on the bottles should have guided the server. John Henry Denny, Rosehill, Wellington Quay, described as a chemist, said he was qualified by apprenticeship but not by examination, and he was covered by a qualified manager. He had carried on business for twenty-five years, and during that time he had made up some thousands of prescriptions. He remembered the woman going to his shop for sulphate. He went to the place where the two salts were kept, and he was under the impression that he had served barium sulphate, because he understood that they were out of barium sulphide. "I account for the mistake made," he said, "because I had been working for three hours with a white powder." The jury's verdict was:—"We find that the woman met her death from poisoning as described, and we are of the opinion that the chemist was guilty of gross negligence in supplying barium sulphide in lieu of barium sulphate."

Dangerous Drugs Acts, 1920-25

THE Home Secretary announces in "The London Gazette" that he proposes, after the expiration of forty days from September 4, to make Regulations under Section 3 of the Dangerous Drugs Act, 1920 (10 and 11 Geo. V, c. 46), applying the Raw Opium Regulation, 1921 (S.R. & O. 1921, No. 864), as amended by the Regulations of 1922, 1923 and 1924 (S.R. & O. 1922, No. 1086; 1923, No. 311; and 1924, No. 1292) to coca leaves and Indian hemp. Draft copies of the Regulations may be obtained on application to the Under Secretary of State, Home Office, Whitehall, London, S.W.1.

We have been favoured by the Under Secretary with a copy of this draft, which reads:—

Draft of Regulations proposed to be made by the Secretary of State under Section 3 of the Dangerous Drugs Act, 1920, for controlling the manufacture, sale, possession and distribution of coca leaves and Indian hemp.

In pursuance of Section 3 of the Dangerous Drugs Act, 1920, I hereby make the following Regulations:—

(1) Subject to the provisions of these Regulations, the Raw Opium Regulations, 1921 (hereinafter referred to as the Principal Regulations) as amended by the Raw Opium Regulations, 1922, the Raw Opium Regulations, 1923, and the Raw Opium Regulations, 1924, shall apply to coca leaves and Indian hemp as they apply to raw opium.

(2) (i) Separate registers or separate parts of the register kept in pursuance of Regulation 4 of the Principal Regulations, shall be used for (*a*) coca leaves, and (*b*) Indian hemp.

(ii) The registers shall be in the form set out in the Schedule to the Principal Regulations with the omission of the words "i.e., raw, powdered or granulated" from the last column.

(3) In these Regulations the expressions "coca leaves" and "Indian hemp" have the same meaning as Section 1 (2) of the Dangerous Drugs Act, 1925.

(4) These Regulations shall come into force on the date hereof.

(5) These Regulations may be cited as the Coca Leaves and Indian Hemp Regulations, 1928.

W. JOYNSON-HICKS,
One of His Majesty's Principal Secretaries of State.

Home Office, Whitehall.

Colonial and Foreign News

THE KOKUSAI INTERNATIONAL PHARMACEUTICAL CO. is the name of a new concern which has lately been organised in Tokio, with a capital of £100,000, to export Japanese pharmaceutical preparations to Mexico and South America.

POTATO BY-PRODUCTS IN AUSTRALIA.—Inquiries are being made by the State Ministry concerning the possibility of establishing in Victoria secondary industries for the manufacture of glucose, potato flour, starch, and power alcohol from potatoes. The rehydration of potatoes at the factory will also be considered. Mr. O. A. Mendelsohn, an analytical chemist, is to investigate the methods in use in the United States, Germany and Belgium.

ALCOHOL FROM SAWDUST.—Professor Sen, in the course of his address at the Science Congress held in Calcutta early this year, stated that he obtained from semi-large-scale experiments 39 to 40 gallons of absolute alcohol from a ton of Gangwa sawdust, whilst the usual figure obtained with other varieties in other countries is in the region of 20 to 22 gallons. The cost of production was slightly higher than 6 annas per gallon, which points therefore to a great prospect of this industry in the province. It was stated that the Union distillery of Calcutta is arranging to erect an experimental plant to give this process a large-scale trial.

TIENTSIN DRUG TRADE.—The demand for foreign drugs in Tientsin (says the "Chinese Economic Bulletin") is rapidly growing owing to the increasing belief in foreign medicine by the Chinese and to the large number of wounded in the civil wars in North China. At Tientsin there are many modern hospitals and dispensaries, for whose supply large quantities of drugs are imported every year. The majority of the foreign drug importing firms at Tientsin are of German nationality. During recent years manufacturers in the United States have concentrated their attention on the Chinese market and appointed resident representatives to compete with the Germans.

JAPANESE SODA ASH INDUSTRY.—The scheme to inaugurate the soda ash manufacturing industry, which had been projected by the South Manchuria Railway Co. some years ago in order to establish firmly Japan's chemical industry in the colony, is making rapid progress, says the "Oriental Trade Journal." Approximately Yen 5,500,000 is needed for the inauguration of the new enterprise. The director of the S.M.R. and other experts are now considering how to check the dumping of soda ash by the British makers. The Dai-Nippon Soda Ash Co., one of the largest concerns in Japan, has recently suspended manufacturing on account of cheap British alkali, and there is a possibility that the S.M.R. scheme may also end in smoke.

NEW DUTY IN TUNIS.—A Beylical Decree of December 30, 1927, provides for the levy in Tunis, as from February 1, 1928, of a consumption tax on all perfumery and toilet products except (1) soap of a sale price not exceeding 3 francs per unit, and (2) dentifrices. The tax, which is to be applied to imported as well as to native-produced articles, is based on the retail selling price, which must be shown on the labels in visible characters. Boxes, bottles, etc., containing taxable perfumery and toilet goods must have Government stamps (vignettes) fixed on them. Exception to this rule may be made under special permission in the case of factories giving full facilities for inspection by Government officials, and in this case the tax is to be paid monthly at the rate of 12 per cent. of the total deliveries, assessed according to retail sale prices, including tax. Exported goods are exempted from the tax.

ANTI-OPIUM PILLS.—Since the dissolution of the Opium Monopoly and the establishment of the Opium Prohibition Bureau in Chekiang, there has been a fundamental change of policy. Formerly one single company chartered by the Government had the sole right of selling opium in the province, but there was no limit to the quantity it might sell. The company had to pay a fixed amount of tax every year, which virtually encouraged it to sell as much opium as possible, and to that end it farmed out its right to smaller merchants in various districts, each of which in turn had to bear a certain proportion of the tax. It was convenient for raising revenue, but the practical results were contrary to the original intention of opium prohibition. Now, although the Bureau has found it inadvisable to prohibit opium all at once, and as the pills for curing the habit have only just begun to be manufactured by the Bureau, its plan is to restrict consumption effectively though gradually. All opium smokers must first register directly with the district branches of the Bureau and obtain certificates therefrom before they may be supplied with opium. Any merchant may obtain opium from the Bureau for sale, but the quantity is limited, and he must pay a tax according to that quantity. It is expected that by the end of April the anti-opium pills will be ready, and no more opium will be sold in the province. The Bureau has agents to investigate the actual conditions and stop illicit trade in this drug.

"WHITE OIL" IN BURMA.—An extract from the minutes of the proceedings of a committee meeting of the Burma Chamber of Commerce, held on June 28, recorded the receipt of a letter from a member (March 28) drawing attention to a large increase in the importation of "white oil." The letter stated that this oil, which was simply tasteless paraffin, was largely used for the purpose of adulterating edible vegetable oils, and suggested that the Chamber should take up the matter and press for publication of the statistics of the importation of "white oil." Correspondence on the subject included a letter, dated June 20, 1928, to the Director, Department of Public Health, giving particulars of imports of white oil for the past three years from Germany; the bulk of this was used for adulterating edible vegetable oils, and it was suggested that its importation be prohibited except under licences. Whilst large quantities of white oil came from America, this was mostly used in the preparation of hair oil and other toilet requisites, and although it was no doubt used to adulterate coconut oil for toilet purposes, the Chamber did not propose that its importation should be prohibited on that account, as it was understood that the mixture of coconut and white oil was not harmful to the public health. With regard to the German oil, however, matters were different; in this case the white oil was simply tasteless kerosene oil, and its use for the purpose of adulterating edible oils and ghee could only lead to a serious diminution in their nourishing qualities, particularly in regard to vitamin content. The Director would, the Chamber felt assured, agree that such adulteration was in the highest degree undesirable from the point of view of the public health, apart from the ethical question of fraud. A recommendation to the Government that the importation of white oil into Burma should be prohibited, except under licence, and only allowed for such specified purposes as involved no danger to the public health, i.e., the preparation of toilet requisites and medicines, was agreed to.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, September 16

London Chemists' Golfing Society, Broxbourne golf course. Medal round. Train from Liverpool Street at 9.25 a.m.

Tuesday, September 18

Glasgow Pharmacy Club (Ladies' Golf Section), Linn Park course, at 3 p.m. Final for the Hunter trophy.

Wednesday, September 19

Portsmouth Pharmacists' Association, Southsea Club, at 2.45 p.m. Annual meeting.

Northumberland and Durham Chemists' Golfing Society, Ryton course, Durham. Bogey competition for Ayrton Saunders trophy. Open to qualified chemists only.

Cardiff Pharmacists' Silver Challenge Cup, Cardiff Golf Club. Open meeting for all pharmacists of South Wales.

Manchester and District Pharmacy Club, Clydesdale Club, Turner Street (High Street), at 8.30 p.m. Whist drive. Tickets, 3s. 6d. each, from A. E. Thorne, 312 Great Western Street, Manchester.

Legal Reports

Perpetual Injunction Granted.—In the Vacation Court, London, on September 12, Mr. Justice Maugham heard a motion by Lever Brothers, Ltd., Port Sunlight, to restrain Mr. Patrick Rogers (trading as the Patricia Manufacturing Co.), 107 Balsall Heath Road, Birmingham, from infringing their registered trade marks by using in connection with shampoos, soaps, face creams and other toilet preparations the words "Sunlight," "Sunrise," "Sunbeam," or "Sunrays," or any device of the sun calculated to lead the public to believe that the defendant's articles were the goods of the plaintiffs. Mr. Rogers, who appeared in person, said he had no idea that there was any infringement, and if there was infringement he was quite willing to stop it at once. Mr. Justice Maugham said that on the evidence it was clear that Rogers was infringing Lever Brothers' trade marks. The defendant agreed to submit to a perpetual injunction and pay the taxed costs of the action, counsel for Messrs. Lever Brothers stating that they waived any claim to damages.

Unqualified Trader Fined.—At North London Police Court, on September 12, John Burgh, oil and colour man, Hornsey Road, N., was summoned for selling a poison in a bottle not duly labelled and not bearing the name and address of the seller. The defendant said he would plead "Guilty" to selling carbolic fluid without labelling the bottle, but not to an unauthorised sale. He had a letter from the wholesale people saying that the fluid contained less than 3 per cent. of homologues of phenol. Police Sergeant Weare gave evidence of the circumstances in which the sale was discovered. The officer added that the Police Commissioner took a serious view of the case. The defendant produced his letter from the wholesale firm. Mr. P. A. W. Self, B.Sc. (Harrison & Self), said he had analysed the fluid in the wine bottle and found it to contain phenols approximately to the extent of 5.8 per cent., in which were included homologues of phenol to the extent of at least 3.5 per cent. In reply to the magistrate the witness said that some of the phenols were poisonous and some were not. The homologues were poisonous. In reply to the magistrate the defendant said that he was not a qualified chemist. The magistrate said that the letter from the wholesale dealer was not supported by the analyst, and imposed a fine of £2, with 7s. costs.

Confectioners' Exhibition

THE thirty-second International Confectioners', Bakers' and Allied Traders' Exhibition was opened at the Royal Agricultural Hall, Islington, N.1, on September 8, and will continue until September 14. There are 282 exhibitors, and the displays maintain the usual high standard. Many lines are of interest to chemists, and several houses well known in the drug trade have stands. Flavourings and colours are featured in many of the exhibits, and are shown by the MANCHESTER CHEMICAL CO., LTD., who also show malt extracts; W. J. BUSH & CO., LTD., vanillin, coumarin, essential oils, and coal tar confectionery colours; STEVENSON & HOWELL, LTD., "Red Ball" flavouring essences, essential oils, etc.; CONSOL PRODUCTS, LTD., lemonade powder, bottled fruit syrups, and lemon squash; BRITISH ESSENCE CO., LTD., fruit essences, floral ottos, and essential oils; CHALLEN BROS., flavouring essences, spices, fruit pulps; BLACKWALL, HAYES & CO., LTD., essences and food colours; WHITE, TOMKINS & COURAGE, LTD., soluble essences of lemon, orange and lime, Sicilian oil of lemon, Mitcham oil of peppermint; the MONARCH CHEMICAL CO., the GLYNN CO., LTD., and the LONDON ESSENCE CO., LTD. Malt preparations, which play an important part in bakery, are shown by the BRITISH DIAMALT CO., BRITISH MALT PRODUCTS CO., LTD., who prepare malt extracts in liquid and powder form, and MONTGOMERIE & CO., LTD., who also display their "Berina" foods. Another dried milk preparation exhibited is that of the HORLICK'S MALTED MILK CO., LTD. The machinery displayed ranges from mixing machines, fuel and electric ovens to foiling and wrapping machines, made by the FORGROVE MACHINERY CO., LTD., and ROSE BROS. (GAINSBOROUGH), LTD. Wrapping paper is manufactured by SPICERS, LTD., who specialise in paper for automatic wrapping; NEASDEN WAXED PAPER CO., LTD.; and WAXED-PAPERS, LTD., printed aluminium foil in sheets, waxed papers, and waxed-backed aluminium foil, which combines the advantages of aluminium foil and waxed paper. WILKINSON BROS., LTD., show embossed seals for perfumery, toilet articles and chemists' sundries. The NESTLÉ ANGLO-SWISS CONDENSED MILK CO. have an exhibit of chocolate and cocoa; WRIGLEY (SALES), LTD., Spearmint; and J. W. LIGHTBROWN & SONS "Grips" pastilles. Retailers will find plenty of interest and ideas at the stands of the IMPERIAL SHOPFITTING CO., J. C. KING, LTD., A. F. CORBETT & CO., and HARRIS & SHELDON, LTD., who feature their patented dust-excluding, hygienic counter-guard and metal frame showcase. Showcards, tickets, posters and advertising novelties are shown by DUDLEY & CO.; E. DUNCAN DORING, decorated tins, cachou jars and other utility glass packages; MANSELL, HUNT, CATTY & CO., LTD., window-dressing paper and fancy boxes; and VENESTA, LTD., cases and panellings in plywood. Models of "National" cash registers, which can be had finished to match shop fittings, are exhibited by the NATIONAL CASH REGISTER CO., LTD., and automatic scales and weighing instruments are shown by W. & T. AVERY, LTD., and AUTOMATIC SCALE CO., LTD. Glassware is exhibited at the stands of JULES LANG & SON and JOHNSEN & JORGENSEN FLINT GLASS, LTD. The CELLOPHANE CO., LTD., also have a stand. ARMOUR & CO., LTD., display compound fats and margarines, cream milk powders and packed fruits.

New Companies
and Company News

P.C. means Private Company and R.O. Registered Office.

ANDRE GIRARD ET CIE (ENGLAND), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in chemical products, drugs and chemists' sundries of all kinds, etc R.O.: 621A Salisbury House, London Wall, E.C.2.

DAPPER & GOOD, LTD. (P.C.).—Capital £3,000. Objects: To act as agents, merchants, retail, wholesale and mail order salesmen, exporters and importers of perfumes, soaps and domestic utilities of all kinds, etc. R.O.: 100 Jermyn Street, London, S.W.1.

VOISIN ET CIE (GREAT BRITAIN), LTD. (P.C.).—Capital £100. Objects: To acquire the business of toilet specialists, etc., formerly carried on at 39 Margaret Street, London, W., and now at 3 Melbourne Square, Lambeth, S.W., as "Voisin et Cie." Secretary: E. P. Whitcomb.

RYMIL PRODUCTS (PARENT) CO., LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of chemists and druggists, manufacturers and refiners of and dealers in pharmaceutical and chemical articles, etc. Solicitors: Cutler, Allingham & Ford, 15 Duke Street, St. James's, London, S.W.1.

BLYTON, ASTLEY & CO., LTD. (P.C.).—Capital £6,500. Objects: To adopt an agreement with V. B. Williamson and to carry on the business of wholesale, manufacturing and pharmaceutical chemists and drysalters heretofore carried on as Blyton, Astley & Co. The first directors are V. B. Williamson, F. Whittaker and W. T. Bell. R.O.: 76 Gordon Street, Lower Broughton, Manchester.

SHADFORTH PRESCRIPTION SERVICE, LTD., has declared an interim dividend of 7½ per cent. on the preference shares and 5 per cent. on the ordinary shares.

Bankruptcy Reports

Re Cecil Godfrey Young, "Lenbury," Bellhouse Lane, Eastwood, Essex, and 241 London Road, Westcliff-on-Sea.—The public examination of this debtor was held recently at Southend-on-Sea. The statement of affairs disclosed figures previously reported in the *C. & D.* (August 25, p. 250). The examination was adjourned.

The British Association

THE meeting of the British Association at Glasgow, referred to in our isue of September 8, ended on September 12. We continue our report of the proceedings with an abstract of a sectional presidential address by Professor C. Lovatt Evans, which, apart from its intrinsic value, is of importance in view of the interest now taken in physiology by pharmacists concerned with research.

The Relation of Physiology to Other Sciences

By C. LOVATT EVANS, D.Sc., M.R.C.S., F.R.S.

[ABSTRACT]

FROM the earliest times, physiological knowledge, whether known by that name or not, has had the closest association with medicine. The applied aspects of physiological knowledge concern the related subjects of hygiene and preventive medicine, medicine, surgery, and veterinary and agricultural sciences in their widest senses. The subject of pharmacology is very closely connected with physiology and therapeutics. As a branch of physiological work it has the highest scientific as well as practical importance; for the study of the mode of action of drugs by providing a means of studying the effect of definite chemical alterations in the environment on the reactions of the living cells cannot fail to serve as a powerful instrument of physiological research. If the medical practitioner is to compete successfully with osteopaths, chiropracters and other similar unqualified persons, he is most likely to do so by only prescribing treatment with proper scientific basis. He should be able to form some opinion with regard to the claims of advertisers of remedies who contribute so large a share towards his daily mail deliveries, and many of whom would be unable to exist were it not for the fact that the average doctor is often as easily deceived with their pseudo-scientific puff as any layman. If physiolology may with pride point to the way in which it has contributed to the development of medicine, surgery, hygiene, and veterinary science, it must with gratitude acknowledge that its inspiration has largely come from them too. What has happened in physics and chemistry may be reasonably expected to happen in biology as soon as it is able by improvement in the accuracy of its methods, and by progress in the formulation of its problems, to employ mathematics with profit in the manipulation of data and in the construction of those generalisations which are landmarks of progress in all the sciences. The many facets of physiological inquiry make it incumbent on all to possess some knowledge of mathematics. But those who do take it up should do so for the purposes of utilising it in their own experimental work, not merely for the purpose of surveying results obtained by others, and still less in order to "lend an air of verisimilitude to an otherwise bald and unconvincing narrative."

PHYSIOLOGY AND MATHEMATICS

Under any other circumstances its introduction into biological literature is of extreme danger, because of the superstition, common alike to those who write and those who read, that anything expressed in mathematical form must be accepted as correct without any further question. Under the most favourable conditions it has up to the present been usual to find a considerable unavoidable margin of variation in the results of many physiological experiments. By regarding these provisionally as "chance" variations, considerable help may be obtained by the application of the theory of errors, based on the theory of probability. Research by statistical methods provides a useful method of investigation, as, for instance, in the study of the toxic or other action of drugs, the data of the œstrus cycle, etc. An elementary deduction which can be drawn from the consideration of these facts is that, where only a few experiments of any kind are performed, important conclusions cannot be drawn unless it can be shown that the conditions are so controlled, and the accuracy of the actual observations so high that the sum of the individual "chance" variations must be small. Observation of this precaution would reduce the bulk of contemporary physiological literature very materially, with a corresponding improvement in its quality. Certain applications of physics to physiology are quite clear-cut and need no further comment; but in many respects conventional physics has serious limitations, which the physiologist must try to make good by its own investigations. For instance, many hydro-dynamical problems of a specialised kind are connected with the study of the circulation. Chemistry and physiology having both originally sprung from the art and practice of medicine, it is little matter for surprise that such a rich harvest has been reaped by their reunion in the form of biochemistry. Although these developments were foreshadowed by the intuition, if not by the actual achievements of the iatro-chemists of the sixteenth century, little advance was possible until chemistry had, by separation from medicine, established its position as an independent science. So that it was not until about 1840 that organic chemistry and biochemistry were able, chiefly owing to the inspiration of Liebig, to make rapid progress, at least on the Continent. There is probably no branch of chemistry that is entirely without interest to physiology, but of course preference must always be given to organic and physical chemistry. It is significant that at the present time a steadily increasing number of young highly trained organic chemists consider it worth their while to turn to biochemistry. The work of Fischer on the carbohydrates, purine bodies and proteins and amino-acids, the more recent work on adrenalin, the identification of carnosine, glutathione, the structure of thyroxine and the natural bases, are of importance to the physiologist. Since the central problems of biochemistry are dynamical, most of its subject-matter must be treated from that standpoint, and here again the debt to physical chemistry must be recognised, particularly in regard to the study of enzyme action, and more recently of interfacial and membrane equilibria, of the molecular structure of surfaces, and of the phenomena of activation and the thermodynamics of oxidation-reduction phenomena.

PHYSIOLOGY A BIOLOGICAL SUBJECT

Physiology is something more than biochemistry and biophysics; it is, and will always remain, a biological subject. As its nearest neighbour among the biological sciences, zoology should have the closest relations with physiology, yet it is curious that during several decades, for reasons which need not now be discussed, these two subjects were as the poles apart. The newly disinterred subject of comparative physiology, however, bears witness to a returning interest of zoologists in the experimental study of function as against mere morphological classification, as well as of physiologists in comparative function as a valuable means of throwing light on their own special problems. With the science of botany, except in its most general principles, physiology has a less direct connection, though here, too, the demonstration of fundamental points of resemblance in the metabolism of plants and animals, and the fact of the mutual dependence of the animal and vegetable kingdoms on each other, reminds us that we cannot afford to ignore the physiology of any living thing. The relation of anatomy to physiology can best be understood if we recall the fact that when the time was ripe physiology separated off from anatomy, taking with it all those dynamic problems which concerned function, and leaving anatomy literally little but the dry bones. The experimental side of pathology has up to the present been almost entirely directed to the study of bacteriology, which, though well enough in its way, is too narrow and superficial, because it gives insufficient information as to the relation between bacteria, their products and the tissue cells on which either infection or immunity can be explained. Now that the subject of physiology is so far advanced, the time is ripe, if not overdue, for the pathologist to come into his own, and for the subject of experimental pathology, with ramifications similar to those of physiology, to attract some of the best brains in the world of biological workers.

The so-called exact sciences appear to be so because of the simplifications of which they are capable, by reason

of which problems can readily be formulated and attacked. Disturbing conditions can provisionally be ignored or allowed for, and a first approximation reached which can be corrected later. In biology this can less readily be done. It is the failure to appreciate this elementary fact which leads some of those trained only in the methods of the exact sciences into the most palpable and unpardonable blunders when they attack biological problems. To take a simple illustration, no amount of pure physics, chemistry and mathematics would have enabled the intricate and beautiful physico-chemical adaptations which have been shown by L. J. Henderson to happen in blood, to have been predicted. The process of application of the exact sciences to physiology consists in reality of studying the phenomena themselves and then adopting the most plausible explanation capable of formulation in terms of the exact science. Matter, energy, time and space are in the melting pot. Lines of separation previously held to be rigid will probably fade away, and there will be found to be a continuity between matter and energy, between living and non-living, between the conscious and the unconscious. But since philosophy cannot arrive at an explanation of the nature of human understanding, the great mystery of the origin, nature and purpose of life will remain to tease, stimulate or humiliate. Physiologists, in attempting to know what life is, have attempted too much, and a new standpoint is essential. It is not a definition of what life is, but a brief statement of its way, which is valuable, stimulating and true. Life is conserved by adaptation, and this conception will be useful alike to general biology, to physiology and perhaps most of all to pathology. The idolisation of research for the sake of the advancement it brings is another of the dangers which threaten. There are at the present time a large number of junior research posts available, but not enough well-trained people adequately to fill them. This is all to the good provided that those who on trial show no aptitude for the work can be ruthlessly eliminated. As they often cannot, there are in consequence a number of young people who drift from one research scholarship to another, perhaps not aimlessly, but with no better objective than the manufacture of papers designed to justify their employment. The hapless editors of each of the swelling tide of journals are coaxed, hoodwinked and, if necessary, bullied, to ensure that these papers see the light of day. In the fullness of time the list of short-time research posts is exhausted, and the young investigator must now either turn to some entirely different occupation or else, as one of my friends expressed it, "subside into a professorial chair" for which, incidentally, he is probably entirely unfitted. The pursuit of science is nowadays, perhaps unfortunately, a career, and one in which moreover it pays to advertise.

New Books

Filippi, E.—*Manuale di Farmacoterapia Veterinaria.* 9¾ in. by 6½ in. Pp. 289. Lire 40. Soc. An. Istituto Editoriale Scientifico, 35 Via Monte Napoleone, Milan. [This Italian text-book of veterinary medicine, by the professor of pharmacology in the University of Perugia, opens with outlining the rules to be followed in writing prescriptions, explaining the various forms of medicaments and their administration. In four chapters the author describes the remedial agents chiefly employed in veterinary medicine, classified according to their therapeutic effects in groups: Parasiticides; sedatives; substances which influence metabolism, the heart, and the nervous system; eliminants. The origin of each medicament, its characters, derivatives, action, doses, and form of prescribing are succinctly described, including notes on the chemical structure, with structural formulas, of substances of definite composition. The work reflects the high level of veterinary medicine in Italy, considerable space being devoted to modern therapeutic methods, including the uses of synthetic remedies, serums and vaccines.]

Prideau, E. B. R., and Lambourne, H.—*Nitrogen.* 9 in. by 6 in. Pp. xxviii + 242. 18s. Charles Griffin & Co., Ltd., 42 Drury Lane, London, W.C.2. [Volume VI, Part I, of "A Textbook of Inorganic Chemistry," edited by Dr. J. Newton Friend. This volume is practically complete in itself, as some of the subject-matter common to other volumes of the series has been included —for example, a section on the atomic weight of nitrogen from Volume I. The sulphonic derivatives of hydroxylamine, amido-sulphonic acids and nitrides of sulphur are surveyed in this work, but in accordance with the general scheme are fully described under the metal. Abundant references are provided, and undue detail in physical constants and chemical processes has been avoided. Chapter I deals with the general characteristics of group 5 of the periodic table, and is followed by Chapter II, giving information on the valency, stereochemistry, and structure of the nitrogen atom. Chapter III deals with the physical properties of nitrogen itself. The use of combined nitrogen in agriculture and a comparison of various fertilisers is given in Chapter IV, which is on the fixation of nitrogen. The establishment of factories to supply the needs of agriculture in fertilisers is touched upon.]

Lewis, E. I., and King, G.—*The Making of a Chemical.* 8¾ in. by 5¾ in. Pp. 288. 12s. 6d. Ernest Benn, Ltd., London. [This unusual book is intended to give an insight into works practice and works conditions, and the underlying idea is good. The authors, however, have a discursive style and, at times, a facetiousness which are apt to be tedious in a scientific publication. The four chief stages in the making of a chemical are given as these:—The laboratory work, the middle stage, the step between, and the running plant. These are described in detail. Lest the student be left in ignorance of cost, the authors have been at pains to incorporate two chapters on the cost in the works and the cost of selling. Materials and energy furnish the theme for much of the remainder of the book. In a chapter on management, the authors give utterance to many platitudes which may pass for wisdom among youngish students, although this may be doubted. But where the authors confine themselves strictly to the chemical side, there are many valuable hints given; for example, in "A Chemist's Notes on Some Materials of Construction." Cast iron, lead, platinum, silica, earthenware and many other materials are lucidly discussed in their relationship to chemical works applications. It would probably have been an advantage had the making of a specific chemical been used as a "peg" on which to hang subject-matter.]

Thompson, C. J. S.—*Mysteries of History.* 5½ in. by 8⅝ in. Pp. viii + 319. 12s. 6d. Faber & Gwyer, Ltd., 24 Russell Square, London, W.C.1. [Mr. Thompson's predilection for the romantic and mysterious has once more led to the production of a volume which will vie in interest with the cleverest of the many works of fiction which are so eagerly welcomed by the reading public. Some writers would have been tempted to moralise upon the delinquencies of historical personages, but Mr. Thompson has been content, wisely, we think, to tell the story of his characters so as to furnish in each case an excellent literary picture. Entertainment and reliable historical instruction seem to have been his aim. His selection of mysteries is sufficiently diversified to please the most captious critic. Some of those he deals with are familiar and have been so well treated by other authors that they have not given Mr. Thompson opportunity for providing much novelty. As a popular work his book should be very attractive. It has one feature which everyone will be pleased to recognise; it possesses excellent illustrations well chosen from authoritative sources and very well reproduced. There are twenty-two chapters, of which a considerable proportion are devoted to the mysterious deaths of historical persons such as Henry I, King John, the Duke of Clarence, Amy Robsart, and Henry, the son of James I. Other chapters contain the more diverting careers of several rogues and charlatans; among these are Mary Toft, Cagliostro, St. John Long and James Graham. One of the most curious cases of female impersonation is that of the Chevalier d'Eow, whose adventures were made the more exciting because of his complicity in certain international intrigues. Mr. Thompson's book is well printed and is provided with a satisfactory index.]

Notes on Books

As an Introduction

to the study of British medicinal plants without the labour of mastering botanical terms—and chemists are occasionally asked to name a book of this kind—Edward Step's "Herbs of Healing" (Hutchinson) is an agreeable compilation, provided with seventy-six well-printed illustrations from photographs by the author. The therapeutic uses, real or traditional, are mentioned in each case. The work is far from being exhaustive—e.g., "Common Melilot (*Melilotus altissima*)" appears without any indication that more than one species of melilot used medicinally is to be found in the British Isles. On the other hand, the text is not encumbered with extraneous anecdotes, and the descriptions are just sufficiently detailed to enable sharp-eyed beginners to identify the plants referred to, particularly the illustrated ones.

A Series of Articles

written for the "Pall Mall Gazette" in 1880 by Anthony Trollope has lately been printed for the first time in book form (Elkin Mathews, 4s. 6d.), with the title "London Tradesmen." Anything from the pen of so well-known a novelist—and, in this case, one who is enjoying a fresh vogue—is sure of being read with interest, even if a detached reader may wonder what a novelist of the mid-Victorian period is doing in that galley. The author, as Mr. Michael Sadleir tells us in a sympathetic foreword, was sixty-five years old when he undertook this parergon; and Mr. Sadleir suggests that throughout the eleven articles there "runs a lament against the passing of the small individual shopkeeper, with a *clientèle* of friends and a reliance on quality and service to build up a steady sufficiency of customers." However that may be, the slim volume is as likely to become a minor classic in its own kind as Campbell's "The London Tradesman" (1747) is in its more serious way. Pharmacists will naturally find the chapter on

The Chemist

the chief attraction of the book. The novelist had obviously been at some trouble to ascertain what the difference between the higher and lower qualifications of the Pharmaceutical Society was, and had to confess himself baffled: "We can only suppose that the pharmaceutical chemist is the more learned pundit of the two, and therefore entitled to a wider faith." This is one of several charming turns of phrase in the book. When we recall that in 1880 it was well-nigh impossible for a retailer to be considered a gentlemen (though a wholesaler might be so classed), we admire the ingenuity with which Trollope got over the difficulty. "At the first blush of the thing it may seem that we are flattering him in calling him a gentleman. But, with the chemist as with all men, education will show itself." And by way of "ingenuas didicisse fideliter artes"—an old friend familiar to readers of Thackeray—the author leads up to the conclusion that the chemist as he had found him "is always a man with whom it is pleasant to spend a half-hour in free conversation." We are left wondering whether the thirty minutes was spared from the chemist's business hours.

A By-Way of Chemical Literature

The great highway of history of every kind is marked by milestones on which are cut the names of great persons and the particulars of great events. During the last sixty or seventy years, however, many historians have shown how absolutely necessary it is to explore and make known the small and often almost unknown by-paths which contribute so greatly to the traffic of the main road. In the history of chemistry Mr. Edgar F. Smith, of the University of Pennsylvania, has revealed a by-path which, to a considerable extent, has been overlooked hitherto. He has compiled a book on "Old Chemistries" (McGraw-Hill Book Co., 12s. 6d.), in which are found the names of many chemists whose treatises were well known in their day, but which are now to a large extent forgotten. Mr. Smith has performed a pious act in retrieving from oblivion the reputation of chemists who deserved well of their day and generation. After a brief general introduction treating of some of the classes of chemical history Mr. Smith begins his treatise with a notice of Benjamin Rush, the first professor of chemistry in the United States; he was elected to the chair of this science in the University of Pennsylvania in 1769.

American Chemists and their Books

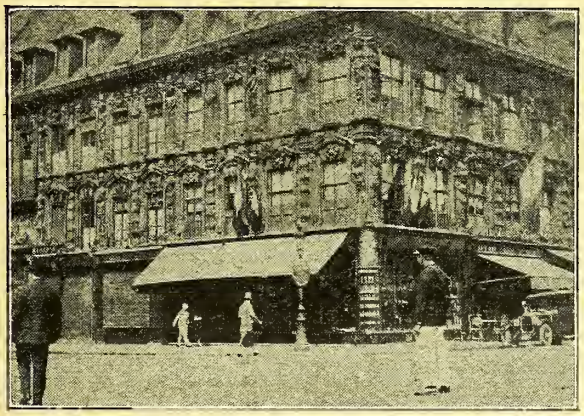
and American editions of English and other European works are naturally an important feature of this volume. The greater number of the books named were intended only for tutorial purposes. Some, however, do not fall into that category. Among these are the "Chemical Essays" of Richard Watson, which ultimately filled five volumes (not four, as suggested by Mr. Smith). Bishop Watson is probably better known now because of the notoriety he gained as the "Absentee Bishop of Llandaff." He confessed that chemistry had seduced him from his ecclesiastical service, but he does not seem to have had any qualms of conscience on account of the emoluments which found their way into his coffers. Mr. Smith asks if it would "be too severe a condemnation to declare that modern chemists have not, as a rule, learned to know Torbern Bergman well." We do not think it would; at the same time it should be noted that, in this country at least, Cullen's translation of Bergman's "Physical and Chemical Essays" is not easy to procure and always commands a good price. The name of M. Macquer is entitled, we think, to a special niche in any memorial of chemical literature, not on account of his handbooks, but because he inaugurated with his "Dictionnaire de Chimie" the series of dictionaries which was continued by Nicholson, Ure, Watt and Thorpe. In a book of this kind omissions are to be expected. In his account of Thomas Thomson's "System of Chemistry" the author makes no reference to Thomson's "History of Chemistry." This is an entertaining work, and, in addition, it contains an engraving of Raeburn's portrait of Joseph Black, which is greatly to be preferred to the print Mr. Smith has reproduced. "Old Chemistries" will be sure of a place on the library shelf reserved for the history of chemistry.

Olive Oil Production

The production of olive oil throughout the world during 1927, says a writer in "Commerce Monthly," established a new high record, exceeding the large yield of 1924 by more than 20 per cent. The total of over 2,000 million lb. was about 60 per cent. above the 1926 production. Practically the entire production of oil comes from the countries bordering and adjacent to the Mediterranean Sea. In this area the consumption of olive oil per person is far greater than in any other part of the world, because it fulfils the dietary needs that elsewhere are supplied by animal fats and vegetable oils other than olive oil. With the exception of a few groves in Arizona, commercial olive production in the United States is limited to California. A large part of the crop is used for pickled olives, but the annual production of oil is somewhere about 750,000 lb. The amount of the annual production which enters into international trade fluctuates between one-sixth and one-fourth. Compared with the 1909-13 average, the volume of trade during the years 1923-26 indicated an increase of 40 per cent. The United States shows a much greater increase in imports than any other country. Before the war the United States imports amounted to about 18 per cent. of the total exports; from 1923 to 1927 they have averaged 39 per cent. Imports in 1927 were 124,000,000 lb. World production for the five years 1923 through 1927 was 25 per cent. above the pre-war period. The area devoted to the growing of olive trees in Spain in 1926 is given by the International Institute of Agriculture as 4,200,000 acres, compared with the pre-war cultivation of 3,500,000 acres. The enormous production of last year was the result of an extraordinarily favourable season rather than an increase in acreage.

Wanderings in the War Zone

TEN years after the end of the great war seemed a fitting date to make a tour of the battlefields the objective of a summer holiday. A preliminary study of the map showed so many names that were familiar that it was difficult at first to choose a route which would be comprehensive and yet not too long, but it was decided that three places could not be missed, Ypres, Verdun, and Reims, therefore these were chosen as the principal points. From Poperinghe to Ypres runs the road along which it is estimated that five million British troops marched from first to last; the town of Ypres is largely rebuilt, except the Cloth Hall, while a little further up the street one comes to the Menin Gate, the memorial erected to the British soldiers who fell in the Salient. The roads in the northern area are far from good, but the one from Ypres through Wytschaete, Messines, and Ploegsteert to Armentieres could only be termed a road because it led from one place to another, whilst just beyond Messines it must have been left as an example of war frightfulness. From Lille I passed through Valenciennes to Charleville, where the Meuse valley was reached, and then on to Sedan, notable in 1870. Nearing Verdun one sees more actual traces in the shape of trenches and broken equipment; although Verdun suffered so many



THE OLD BOURSE, LILLE

bombardments and so many of the houses were demolished, the old Porte Chaussée at the end of the bridge entering the town remains intact and also some of the old houses behind it, but on the Quai they are all in ruins and gradually being pulled down. At Verdun the principal excursion is the circuit of the forts; the road rises continuously for nearly five miles, passing the old barracks now only the shells of the buildings, and then a side turning takes one over the tunnel of Tavannes, which was used by the French as an ammunition store, and up to the Fort de Vaux where one is shown round by the soldiers in charge who carry acetylene flares. All round the fort are shell holes, barbed wire entanglements, remains of heavy guns, left just as they were. From Vaux to Douaumont, where there is the wonderful chapel, called the Ossuaire, they are engaged in building to contain the bones of the fallen. Here also was a curious example of the English language, for a notice stated "To forbid to fotografié to make." From Verdun to Clermont the kilometre stones are of a decorative pattern and have the words "Voie Sacrée" on them, for this was the road by which all supplies were sent to Verdun, and thousands of men were engaged day and night keeping it in repair; from here and round Reims and Laon the roads had good tarred surfaces and were a decided improvement on those in the north. Clermont was all demolished and Suippes, the next town, was burnt. From Suippes nearly to Reims it is one continuous battlefield. This desolation went on to the junction of the road with the Chalons-Reims road, where the ruins of the Fort de la Pompelle stand and there is a stone marking the limit of the German advance.

On entering Reims one passes the Parc Pommery, where are the celebrated caves or champagne cellars. Visitors are shown round in parties, starting in the large entrance hall where there is a barrel which, according to figures on the end, holds 115,000 litres. The descent is made of 116 steps to the cellars, which are in the form of long galleries cut out of the chalk, and here and there at the cross galleries are shafts up to the daylight, although the whole is lit by electricity, and there are endless travelling chains to carry the stock. In one or two of the galleries there are carvings in the chalk in the form of pictures with frame complete representing Silenus, Bacchus, etc., whilst each gallery is named after some city, Paris, London, Rome; there are 18 kilometres altogether containing ten million bottles of champagne. The bottles, when filled, are first stacked on their sides for four years to deposit, then neck downwards and agitated daily for two months to settle the deposit near the cork, when it is removed. Some liqueur is next added to each bottle, which, when recorked and wired, goes to the labelling department; the only thing missing in the visit was a taste at the end. Laon stands on a hill which rises steeply and is so isolated from the surrounding plain that it would seem to have been planted there for the sole purpose of building the cathedral on top. Fortunately for the modern traveller there is a newer town on level ground below, with an excellent hotel and a tramway. Shortly after leaving Laon one comes across traces of the German occupation, the signs still remaining on the walls of the houses, "Nach Crecy," "Orts Kommandantur," "Minenwerfer Park," whilst more suggestive of destruction is a board stating "Ici Villers," the only intimation of the whereabouts of a village. St. Quentin was another town in German occupation, and the Basilica would have been totally destroyed, but the French arrived twenty-four hours before they were expected and the church was saved.

IN THE BRITISH SECTOR

Cambrai has now been considerably rebuilt. From Cambrai to Arras the first few miles were over the worst road I can remember. A few miles north of Arras is the famous Vimy Ridge. One leaves the high road and turns down a private road which has been thrown open and planted with trees on each side; this leads to the trenches, which have been preserved by reconstituting them with cement, sand bags and cement duckboards, whilst here and there have been placed helmets, water bottles, trench mortars and other things, the whole arrangement giving one the idea of an exhibition or a museum. From here can be seen on a height across the valley Notre Dame de Lorette, which is another monument to visit. Missing Lens and the mining district, the road to Bethune was taken, the Place at this town being a fine example of how to adapt modern requirements when rebuilding with the old picturesque style of architecture, thence through Hazebrouck to Cassel, though why one should want to climb up two miles of execrable *pavé* to see the house where Marshal Foch resided, and then drop down nearly three miles of worse still, I do not know, and so back to Dunkirk. Pharmacies in this part of France are naturally on the same lines as elsewhere in the towns which escaped destruction, but in some of the rebuilt towns I saw some very fine examples of fronts and interiors built on a bigger and better scale. I noticed nothing particularly of interest until I came to Laon, where there were five pharmacies in a very short space in the narrow Rue Chatelaine, and showing how the pharmacien in France is tending to follow more on our lines—the first one had a trayful of glass eyes and optical goods in the window, the next a display of massage rollers, a third diagrams of mushrooms and poisonous fungi, another the famous soap at two tablets for 4 francs, and a safety razor with shaving cream at 8.50 francs, whilst the last had two animal skins as an advertisement for a skin soap. On my tour I had several conversations with pharmacists, introducing myself as an English *confrère*, and many of them deplored this new attitude towards sidelines. Although we frequently refer to the status of the pharmacien on the Continent, it is surprising how many of their problems correspond with ours. One pharmacien I spoke to told me that when he commenced he served three years in a pharmacy; now they serve one

year in the pharmacy and three years in the schools, and in consequence he complained that the newer generation were very deficient in manipulation. The pharmacien has to do his military training at the age of 20, and he can have the choice of going in for a special examination for an officer or taking ordinary private's rank. It is apparently also difficult to get locums. A trustworthy man expects 45 francs a day, his board and lodging, which usually has to be provided at the local hotel, and his fare both ways, the total expense being a serious one to French ideas. The hours are not so bad in the smaller towns as formerly, usually 8 to 12, close for lunch, then 2 to 7. It does not follow, however, that the closing hours are peaceful, as they have the customer who knocks at all hours for trifles, as we have, and the Syndicat, or association of pharmacists, has been trying to establish a system of fees, 2 francs for opening at lunch time, or from 7 to 9 p.m., and 5 francs at night, in addition to the cost of the medicine, but so far they have not secured agreement between all pharmacists. Many business houses are trying to introduce what they call "la semaine Anglaise," that is, the weekly half-day and Sunday closing. One



A WAR-ZONE PHARMACY.

thing the pharmacien has which we have not, and that is the right to dispense prescriptions; these are more varied than we usually meet, and consist of mixtures, syrups, cachets, ampoules, etc. The prices are regulated by tariff, so much for each ingredient, so much for manipulation and container, whilst for dangerous drugs there is an extra fee; for example, cocaine carries 1.20 francs extra for weighing, laudanum 0.80, but the total charges appeared to be a little lower than ours on the whole, though it must be remembered that most commodities seem lower priced to us, as labour is cheaper and rents and taxes are not on our scale. They even have the same bureaucratic ways in some cases; although there is no national insurance, there are various societies which provide similar schemes, and in one instance I was assured that when the account was sent in, quarterly, the total had an odd 26 centimes. This was entered as 25, being the nearest coin, and the whole batch was sent back, involving two or three weeks' correspondence over one centime. Proprietaries there are in thousands; they bear a 12 per cent. tax when the formula is not disclosed, and the pharmacien is as little in love with them as we are, but there is now a kind of wholesale association for pharmacists only, providing them with a range of own lines giving 50 per cent. on sales. The pharmacy illustrated was in a unique position; across the road below it ran the Hindenburg line, and a hundred yards or so above it the British line, and in consequence there was nothing left of the town except a few piles of bricks, so the pharmacien had to buy an old hut and turn it into temporary premises. Two windows were put into one end, the brickwork effect being accomplished by judicious painting; about a third of the hut was partitioned off for the shop, whilst behind this were the dispensary, laboratory and stock room, and it was surprising the amount of stock it contained and its varied nature.

PHARMATOURA (5/8).

Inhalation Therapy

IN a recent issue of "The Medical Officer" (1036, 247) Dr. F. W. Alexander, late medical officer of health for Poplar, calls attention to the value of treatment by inhalation, which in a primitive form dates back, he says, to Hippocrates. After explaining that the essential feature of the process is passing oxygen through medicated water, Dr. Alexander continues:—

"For my own part, having seen the amazing physical subdivision of the drugs administered . . . I am convinced that we have in inhalation therapy one further weapon in our armamentarium. Insulin cannot be given as such through the stomach. It can be given through the lung. Already we know exactly how much of the drug has been administered to the patient by injection by the mouth or per rectum, the question is how much has been effectively absorbed. The physical subdivision seems to me an enormous advantage, and there are others. In the case of respiratory diseases we obviously get at the injured tissue at once, and reach not merely the gross lung, but the alveoli of that lung. As the lung surface is enormous, in view of the minute subdivision of the particles involved, and in view of the fact that standardisation of the dose is possible, this constitutes one further advance in the direction of making medicine a quantitative science. The actual apparatus which I have had in use for the past week or so consists of an oxygen cylinder as the essential part. It has a manometer controlled by a special device which regulates the pressure. The oxygen passes through a special valve, and thus reaches the drugs which are contained in two different tubes, and it is possible to regulate the strength of the flow to either of these tubes. The drugs in either case reach the patient through something that can be compared to a chloroform mask, and as inhaled are of the order of from 5 to 10 μ diameter. Among the drugs which are already being used are adrenalin, camphor, menthol, eucalyptus, cajuput oil, guaiacol, borax, insulin and cypress oil." Dr. Alexander suggests that medical officers of health should try this type of treatment in hay-fever, tuberculosis, diphtheria (carriers), and cerebro-spinal meningitis (contacts).

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Organic Phosphorus and Gold Solutions.—Auro-sodium thiosulphate and pure sodium thiosulphate are dissolved together in water. A solution of the sodium salt of *p*-dimethyl-amino-tolylphosphinous acid in water is added and the mixture sterilised in a current of steam, the solution having a therapeutic value and being painless on injection. (Leopold Cassella, G.m.b.H., Frankfort. 253,946.)

Tellurium Germicides.—Aluminium telluride and α-ϵ-pentamethylene di-iodide are heated together and the product extracted with organic solvents to yield respectively α-iodopentamethylene-ϵ-*cyclo*-telluripentane-1-iodide, *cyclo*-telluripentane-1-:1-di-iodide and α-ϵ-pentamethylene bis*cyclo* telluripentane-1-iodide which are germicidal and therapeutic agents. (Morgan and Burgess, Teddington. 292,222.)

Alkyl-β-Halogen-Ethyl Ketones.—A process for the manufacture of alkyl-β-halogen-ethyl-ketones by reacting with ethylene in the presence of a metallic halide (anhydrous aluminium halogenide or iron halogenide) upon an acyl-halogenide (acetyl chloride), pouring the reaction mass into ice-water, extracting with ether and distilling the extract. (Schering-Kahlbaum A.-G., Berlin. 282,412.)

THE STOCK OF AN "AUTOMATIC PHARMACY."—In a restaurant in the Strand, London, W.C., the following varieties of compressed tablets are on sale in an automatic machine—ammoniated quinine, aspirin, cascara sagrada, potassium permanganate, soda mint.

Trade Notes

THAWPIT DRY CLEANER.—Thawpit, Ltd., Astor House, Aldwych, London, W.C.2, are offering special terms and window-display prizes in connection with this preparation, which is referred to on another page in this issue.

GAS RADIATORS.—John Wright & Co., Essex Works, Aston, Birmingham, supply radiators in which the gas is automatically cut down when a certain temperature is reached, thus not only saving gas but preventing the atmosphere from becoming oppressive.

NEW-MIX COMPETITION RESULT.—Gilmont Products, Ltd., 35 Crutched Friars, London, E.C.3, in their advertisement in this issue, announce the names of the winners in the window-display competition. The number of entries was 294, involving a scrutiny of some 200 photographs.

NATIONAL DOG WEEK.—A. F. Sherley & Co. (1928), Ltd., 18 Marshalsea Road, London, S.E.1, are presenting their well-known booklet, "Hints to Dog Owners," free of charge to members of the public during the National Dog Week (September 23-29), and particulars of manner in which chemists can co-operate in this scheme are given on another page. The coupons must be returned in one envelope during the first week in October.

EYEBROW BEAUTIFIER.—Mirus, Ltd., 57 Carleton Road, London, N.7, are the makers of a liquid eyebrow beautifier, Perm-Brow, which is not removed by washing, so that application once or twice a week is generally sufficient. In event of the beautifier being applied too thickly or coming in contact with the skin elsewhere than on the desired part, it can be removed by eau de Cologne, or preferably by the remover which the company supply specially for this purpose.

THERMOGENE SLOGAN COMPETITION.—Hundreds of our subscribers responded to the recent invitation of the Thermogene Co., Ltd., London, E.C.4, to submit an advertising slogan for their well-known medicated wadding. Three entrants submitted "Thermogene—Your Warmest Friend," which the judges considered the most suitable, and therefore the prize of £25 is shared by the following competitors: Arthur J. Barrett, 108 High Street, Portsmouth; F. C. Bentley, 55 Conduit Street, Leicester; and A. R. Courtenay, Little Fir, Knob, Hindhead. An additional prize of £2 2s. has been awarded to Mr. J. F. Carter, Boots Pure Drug Co., Ltd., Nottingham, for the slogan he sent in.

NEW POPPŒA PREPARATIONS.—Papier Poudré, Ltd., 46 Baker Street, London, W.1, have recently introduced some new lines of interest to chemists, namely, vanishing cream, skin food, shampoo powders and rouge. The creams, which are pleasingly perfumed, are packed in frosted jars with black metal screw caps and nicely labelled. The jar is then enveloped in an attractive carton. The packets of shampoo powder are packed in an outer, which folds to form a showcard and container. Poppœa rouge is supplied in the form of booklets, and for use a leaf is detached, moistened and rubbed on the skin. The rouge, which is available in two shades, is stated to be purely vegetable, and it is not easily rubbed off. A striking coloured showcard is supplied illustrating the use of the leaflets. In connection with these lines the company is offering special terms to chemists.

Trade-mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1928, p. 329.

(*From "The Trade-marks Journal," August 22, 1928.*)

"CUNIO" and "SULNICO"; for chemicals (2). By Murphy & Son, Ltd., The Cedars, Sheen Lane, Mortlake, S.W.14. 492,335; 493,433.

"TRANSMUTAN"; for goods (3) excluding bath preparations. By C. H. H. Spronck, Utrechtscheweg 75, Zeist, and Wilhelmina Hamburger, Westerstraat 3, Utrecht, The Netherlands. 489,060.

"SICCO"; for medicinal chemicals (3). By Sicco A.G. Chemische Fabrik, Rigaer-Strasse 14, Berlin 0.112, Germany. 490,221. (Associated.)

"YESMAL"; for medicinal chemicals (3) and for food substances (42). By The English Grains Co., Ltd., Shobnall Road, Burton-on-Trent. 490,699/707. (Associated.)

"CARDYL"; for a campho-carbonate of bismuth remedy for syphilis (3). By Les Etablissements Poulenc Frères, 86-92 Rue Vieille-du-Temple, Paris. 490,958.

"SUTHYTE"; for medicated salve (3). By C. H. Brown and J. R. Laybourn, "Edenfield," Marlboro Avenue, Hornsea, Yorks. 492,307.

"PANDIGAL"; for medicinal chemicals (3). By P. Beiersdorf & Co. A.G., Eidelstedterweg 38-40, Hamburg 30, Germany. 492,434.

"ASTMOIDS"; for medicinal chemicals (3). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 492,910.

"KHAROPHEN"; for medicinal chemicals (3). By The Wellcome Foundation, Ltd., 67 Holborn Viaduct, London, E.C.1. 493,420.

"SOUTHALLS"; for sanitary towels, etc. (11) and for protective garments (38). By Southall Brothers & Barclay, Ltd., 19-21, Lower Priory, Birmingham. 489,280/281. (Associated.)

"PANTOPHOS"; for all goods (11). By Carl Zeiss, Carl-Zeiss-Strasse, Jena, Germany. 493,246.

"GWENDA"; for all goods (48). By Hussey, Dawson & Co., 75 Ford Street, Hockley, Birmingham. 491,629.

"CAMILATONE"; for shampoo powder and hair preparations (48). By The Camomile Tonio Co., 59, Oak Grove, Cricklewood, London, N.W.2. 491,773. (Associated.)

"PRIMROSE HOUSE" with design including doorway and steps and words "Here Dwells Youth" ("Primrose" disclaimed); for all goods (48). By Primrose House, Inc., 19 Dover Green, Dover, Delaware, U.S.A. 492,190.

"BLUE HEAVEN"; for perfumery, etc. (48). By The Dubarry Perfumery Co., Ltd., Hove Park Villas, Hove. 492,655.

"SOPRANO"; for perfumery, etc. (48). By Parfumerie de Saint Hubert, 18 Rue des Poissonniers, Neuilly on Seine, France. 492,841.

"DAME AUX CAMÉLIAS"; for perfumery, etc. (48). By Bourne & Hollingsworth, Ltd., 72 Berners Street, London, W.1. 493,099.

(*From "The Trade-marks Journal," August 29, 1928.*)

"BLACK PRINCE"; for goods (1). By R. S. Clare & Co., Ltd., 8-15, Stanhope Street, Liverpool. 491,070.

"PROTOSORB," "NOVOXIDE" and "NOVASORB"; for chemicals for the absorption of carbon dioxide (1). By R. H. Davis, 187 Westminster Bridge Road, London, S.E.1. 493,049/151/152.

"POLSTANE"; for all goods (1). By W. R. Todd & Son, Ltd., Marfleet Avenue, Marfleet, Hull. 493,477.

"OZWIN HEALTH SALTS" on label device including gateway with words "Gateway to Health" ("Gateway to Health" disclaimed); for medicated salts (3). By Butterworth & Taylor, 8 Hardinge Street, Union Street, Oldham. 489,038. (Associated.)

"YESSAL"; for medicinal chemicals (3). By The English Grains Co., Ltd., Shobnall Road, Burton-on-Trent. 490,700. (Associated.)

Device of pennant bearing letter "M" ("M" disclaimed); for medicinal preparations of rhubarb and herbs (3). By A. F. Welti, 40 Trinity Square, London, E.C.3. 491,310. (Associated.)

"BEAUTÉ LIMITED" under device of face on hexagonal shape; for medicinal chemicals (3), surgical instruments, etc. (11), and for perfumery, etc. (48). By Beauté, Ltd., 38 Old Bond Street, London, W.1. 491,495/496/501. (Associated.)

Reproduction of oil painting of the late J. M. Smith; for medicinal chemicals (3) and for perfumery, etc. (48). By J. M. Smith & Co. (London), Ltd., Arthur Street, Old Kent Road, London, S.E.15. 492,661/662. (Associated.)

"'KAPS' KAP EVERYTHING FOR COUGHS AND COLDS," etc., on label device including head of woman with handkerchief; for medicated pastilles (3). By J. James & Son, Bearwood Confectionery Works, Barnsley Road, Hagley Road, Birmingham. B492,977.

Monogram "F B C" on oblong black and white check design; for medicinal chemicals (3). By Heppells, Ltd., 16 Grosvenor Place, London, S.W.1. 493,709.

"ELASTOPLAST"; for bandages (11). By Luscher & Bomper A.G., Fahr, Rheinland, Germany. 493,126.

"VITALIA"; for meat juice (42). By Vitalia, Ltd., 17 Boniface Street, Westminster Bridge Road, London, S.E.1. 489,796.

"NOTOX"; for hair dyes (48). By Inecto Incorporated, 33 West 46th Street, New York, U.S.A. 482,493.

"BANAT EL NIL LOTION" on label device of two African girls; for perfumery, etc. (48). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, London, E.8. 492,268. (Associated.)

Births

Notices for insertion in this column must be properly authenticated.

BENSON.—At Eton Court, Folkestone, on September 6, the wife of Robert Benson, chemist and druggist, of a son.

DAVIDSON.—At Conpar Angns, on August 30, the wife of Johu D. Davidson, chemist and druggist, of a son.

LOMAN.—Oii September 7, the wife of J. Lomax (managing director, Nyal Co., Ltd., Slough), of a son.

Marriages

BRAY—GOVAN.—At Glasgow, on September 3, James George Bray, chemist and druggist, 4 Jnra Street, Halfway House, to Agnes Govan.

CROFT—GIBBON.—At the Primitive Methodist Church, Stretford, Manchester, on September 5, Angelo James Croft, chemist and druggist, to Ivy Gibbon, Stretford.

HENDERSON—STEWART.—At the Grosvenor, Glasgow, on September 8, David Henderson, M.D., to Beatrice Mary, third daughter of the late Mr. James Stewart, chemist and druggist, Kirkintilloch.

MULVEIN—KERR.—At the Parish Church, Maybole, on August 30, Johu Mulvein, chemist and druggist (Bathgate & Co., chemists, Calcntta), to Christina Graham Kerr.

PRATT—PETERS.—At St. Diones' Church, Fulham, London, S.W., on September 4, by the Rev. Henry B. George, B.A., William Thomas Pratt, M.P.S., eldest son of Mr. J. R. Pratt, 35 Station Road, March, to Marjorie Alice Peters, M.P.S., daughter of Mr. A. C. Peters, 25 Delvino Road, Parson's Green, S.W.6.

ROBERTS—WALSH.—At the Wesleyan Church, Burscough, Ormskirk, recently, Evan Morris Roberts, chemist and druggist, to May Robertson Walsh.

Deaths

BENNION.—Suddenly, on September 2, Mr. Richard Bennion, chemist and druggist, 76 St. Albans Road, Watford, aged fifty-four. Mr. Bennion was seized with illness while in a train with his wife and daughter. He was a native of Staffordshire, and served his apprenticeship to J. & H. A. Averill, chemists, Stafford. In 1907 he went to Watford, where he became closely connected with pharmaceutical work, rendering yeoman service to his *confrères* in the county at the advent of the National Health Insurance Act in 1912. He served on the Hertfordshire Pharmaceutical Committee from its formation, and was the Committee's representative on the County Insurance Committee at the time of his death. Mr. Bennion was an energetic worker in the re-formation of the Watford and District Pharmacists' Association, and held office as president. The funeral took place on September 5 at Seighford Church, Staffordshire; it was attended by Mr. D. W. E. Barker, Watford, on behalf of the Hertfordshire Pharmaceutical Committee.

CRAIG.—At 17 Dalkeith Road, Dnndee, on Angust 28, Mr. James Craig, chemist and druggist, 46 Albert Street. Mr. Craig qnalified in 1913.

ERSKINE.—At 19 Drumsheugh Gardens, Edinburgh, on September 1, Mary Ann Maxwell, widow of the late Mr. John Erskine, chemist and druggist, Kirkcudbright.

GIBB.—At Bonrne End, Bnckinghamshire, on Angust 31, Mr. William Charles Napier Gibb, chemist and druggist. Mr. Gibb qualified in 1903.

HEAD.—On September 7, snddenly, Mr. George Head, chemist and druggist, 86 High Street, Deal, aged sixty-two. Mr. Head was a native of Bridgnorth, and prior to coming to Deal abont thirty-four years ago was with Savory & Moore, Ltd., London, W.1. He leaves a widow and two daughters.

Wills

MR. WILLIAM OGSTON, Atherstone, Fairfield Road, Inverness, retired chemist and druggist, who died on June 5, left personal estate valued at £12,979 16s. 5d.

MR. DAN DAVIES, M.B.E., 324 Coldharbour Lane, Brixton, London, S.W., chemist and optician, who died on Jnly 19 last, left estate of the gross value of £2,312 13s. 6d., with net personalty *nil*.

MR. ALEXANDER COUTTS BONNER, 129 Hamilton Place, Aberdeen, wholesale drnggist, managing director of William Davidson, Ltd., who died on May 24, left personal estate in Great Britain valned at £9,706 16s.

MR. ANTHONY JAMES WHARTON, 153 Hessle Road, Kingston-on-Hull, chemist and druggist, who died on April 13 last, left estate of the gross valne of £7,051 11s. 1d., with net personalty £5,862 19s. 10d.

MR. THOMAS ROBINSON, J.P., The Villa, Hurlet, Nitshill, Glasgow, late of Robinson & Hunter, chemical manufacturers, Glasgow, who died on February 17 last, left personal estate in Great Britain valned at £31,458 11s. 6d.

MR. HENRY POTTER, Normanhurst, Grosvenor Road, Westcliff-on-Sea, chairman of Potter & Clarke, Ltd., wholesale drug merchants, Artillery Lane, E.1, three times Mayor of Stepney, who died on July 28, left £122,007 0s. 5d., with net personalty £113,935. The testator gives 10,000 ordinary shares in Potter & Clarke, Ltd., to his son, Henry Arthur; 5,000 shares each to his grandsons, William Charles Henry Mackenrot and Cecil Potter Mackenrot; 2,500 shares each to Harold Edward Crane and Winifred Grace Henderson; £100 each to the execntors; and the residue of the property as to four-tenths for his son, two-tenths each to his grandsons, William C. H. Mackenrot and Cecil P. Mackenrot, and one-tenth each to Harold Edward Crane and Winifred Grace Henderson.

Personalities

MR. C. STONELAKE, chemist and druggist, Smith Street, St. Peter Port, is the editor of a new pnblication entitled "The Gnernsey Magazine."

MR. C. COMTE, who has been in the employ of Moore & Co., ships' stores snppliers, Duke Street, London, E.C.3, for sixty-four years, has retired on a pension from his firm.

DR. JAMES HAWKINS, associate chemist at the Hospital of the Rockefeller Institute, New York, has been awarded the degree of Doctor of Science from the University of Edinburgh. Dr. Hawkins received the degree of Ph.D. in physical chemistry from the University of Edinburgh in 1922, and since then has been connected with the Rockefeller Institute.

MR. I. HOLMES KEALL, only son of Mr. John Keall, member of the Pharmacentical Society's Conncil, and a pnpil at the East Anglian School, Bury St. Edmnnds, has passed the Local Cambridge Senior examination, and, having secnred a snfficient number of credits, has obtained both the Cambridge Previous examination and exemption from the Matriculation of London University.

MR. S. R. COLLIS, of the staff of C. R. Harker, Stagg & Morgan, Ltd., manufactnring chemists, London, E.1, has recently completed sixty years in the drug trade. After being in the retail for fonrteen years, he joined C. R. Harker & Stagg, whose business at that time was in Laurence Ponntney Lane, E.C., and has thus been with his present employers for forty-six years.

Information Department

INFORMATION WANTED

C/69. Compact rouge marked G. & Co., London, with Star and Crescent trade mark

C/258. Dentclair tooth-brush

E/129. Fletcher's horsehair rubbing glove

W/129. Kemax

D/219. Longdall's solution

Observations and Reflections

By Xrayser III

Toilet Chemistry

has long been my ideal as a business development for pharmacists, and I welcome, therefore, your remarks on the subject of the chemist-perfumer (*C. & D.*, September 8, p. 312). As you wisely indicate, special arrangements should be made for dealing with customers who require toilet accessories, including, if possible, the provision of a special place where self-conscious customers can be attended to. Real salesmanship can readily be developed in this direction, by tactfully leading customers to realise what they need. As you are careful to point out, it is not a matter of inducing the customer to purchase what is not wanted, but of assisting in the correct choice of material and explaining how to obtain the desired and best effect by applying it. I am also generally in accord with your advice not to overdo the pushing of own-name preparations, though chemists will be well-advised to make practical use of the information given in your articles on bath salts (p. 302) and dental preparations (p. 306). A not unimportant further point is that the prices charged for toilet accessories, perfumery, etc., should not err on the side of cheapness. If it is a fact that our standard rate of gross profit has dropped so seriously as we have been told by experts (p. 312), it is high time we applied the remedy of increased charges wherever possible.

Automatic Machines

for the delivery of packed drugs are beginning to make their appearance, as might have been expected, and I do not see how this use of such machines can be prevented, even if it were desirable to attempt to stem this latest tide of business progress. The impressions of your Australian contributor (*C. & D.*, September 8, p. 303) are all very much to the point, and I was particularly interested in his references to the use of automatic machines in our business. It is only one step further in the method of simplifying the handing out of packed goods, and so saving time for attending to other profitable business. We do not, as a rule, make the compressed tablets we sell, and it is even becoming a rare thing for any of us to pack them. It is difficult, therefore, to understand why exception should be taken to automatic handing out of the packages for which we are merely distributors. Tradition and conservative upbringing are, of course, against anything of the kind; but if we do not take prompt steps to secure the business in automatic supplies of drugs, that business will drift away into unqualified hands. Chemists should do anything in their power to keep the sale of medicaments to themselves, and it is surely better that they should control automatic supplies rather than let others establish a right to do so.

Marked Honey

is now to be added to our list of goods that may cause trouble (*C. & D.*, September 8, p. 295), and I can foresee difficulties arising when we have occasion to weigh out honey from a stock jar, particularly if we are selling blended imported honey without knowing it. Apart from this, I am interested in the statement that the official Order exempts from part of it blended imported honey exposed "for sale wholesale, if the person exposing the goods is a wholesale dealer." This brings us up against the old problem of wholesale versus retail, since the wording of the Order presumes sales by wholesale by others than wholesale dealers. I am puzzled to know how one can sell by wholesale without being a wholesale dealer, despite the fact that one may sell other goods by retail. Is it quantity that constitutes selling by wholesale, or classification of the seller as a wholesaler?

Sheffield Chemists,

we are told (*C. & D.*, September 8, p. 296), resent having to explain small percentage variations in dispensing, and I am in full sympathy with them on this point. What appears to me an entirely wrong interpretation is being put upon the arrangements for the testing of National Health Insurance dispensing. No doctor in the kingdom expects absolute precision in the weighing or measuring of the medicaments he orders, and any practitioner would quickly manifest his views on this point if medicines dispensed by himself were submitted to the tender mercies of a public analyst. I take it that a doctor's intention when he orders a bottle of mixture is that an approximately equal quantity of each ingredient should be taken by the patient for each dose, and it is immaterial whether the exact quantity taken varies 10 per cent., or even more, one way or the other. Regularity in the taking of fairly even quantities is the thing aimed at, and variations due to careless measuring by the patient are much more likely to occur than are serious discrepancies for which the dispenser is responsible.

To Augment

her natural charms has always been the persistent endeavour of woman. Whatever may have been the disabilities under which Ovid laboured, he knew how to mitigate them by the production of at least one inevitable best-seller. To enlarge the lady's opportunities, whether by knowledge or materials, for diversifying her attractiveness is a sure means to win her patronage. There can never have been a time when she has had at her command such a wealth of toilet adjuncts which could be used so efficiently, with such ease and with such freedom from noxious effects, as she has to-day. This is due to the numerous discoveries of materials and improved methods of manipulation accomplished by chemists within the last 150 years. It is both fitting and right, as you intimate, that pharmacists should obtain a considerable share of the sale of commodities of this kind. Emollients, astringents, bleaching agents, protectives, depilatories as well as the many kinds of applications for ameliorating the unkind action of time and of exposure to rough winds are all adequately provided for in the laboratories of chemists. To-day they can be, and are, compounded in such forms as to be quite innocuous if employed in a reasonable manner. The resources of modern civilisation are enough to make the beauties of the time of Ovid turn green with envy, if that were possible.

If We Look Back

no further than the seventeenth century we can understand how much better off the woman of to-day is than her sister of that period. For the preparation of hair lotions and preparations for the skin such things as glycerin, hydrogen peroxide, fine zinc oxide, precipitated calcium carbonate, carmine and all the other refined products of modern chemistry were not available. One striking result of the great change in these matters is that not only the lady of fashion but, in some degree, every woman makes use of these cheap but refined, and in some cases refining, works of chemical art to improve her natural attractiveness. It is a matter for thankfulness that this can be done without the risks which accompanied the use of toilet preparations in former days. Some notion of the evil consequences which must often have followed upon the employment of many of the paints and washes of the time referred to can be obtained from William Salmon's "Polygraphice." In this book he included a section which he called in his grandiloquent manner :—"An Idea of the Arts of Beautifying and Perfuming," and introduced the recipes somewhat maladroitly by saying that :—"These *Cosmeticks* we have offered upon the *Altar* of your defects; protesting that the use of these Beautifiers will make your *rusty skin* and *ill-looked faces*, to outshine, with a radiant lustre, the most splendid of all the *Nymphs* of *Diana*." The materials employed in his various applications were in general use for such purposes. They were talc, sublimate, bull's gall, red sanderswood, dissolved pearls, lemon juice, salt of tartar, alum, sugar of lead, vinegar, white of egg, camphor, ceruse and various pomades made with almond oil and perfumed with many and expensive articles, such as musk, civet, ambergris, etc. There cannot be much wonder that the "make-up" of those days had to be administered in increasing layers with the increasing years, otherwise the "rusty skin and ill-looked faces" would have suggested a likeness to the denizens of the Plutonic regions rather than to the goddesses of Olympus.

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Editorial Articles

The Rational View of Adulteration

DISCRIMINATION in the perennially interesting topic of adulteration is imperative if loose thinking is to be avoided. An influentially signed complaint, for example, has been made that the Act entitled "An Act to consolidate the Sale of Food and Drugs Acts" is not really a consolidating Act, because it does not incorporate all the Regulations which are "a part of the legislation safeguarding the purity of food." But statute-law is one thing: Regulations for carrying out the law are quite another thing. These Regulations are made under powers given to make them in the Acts to which they relate; and to complain, when a number of statutes overlapping each other and scattered about through half a century of statute-books are brought together into one intelligible Act (from which what has been repealed is omitted and in which the whole of the remainder is clearly rearranged into parts, sections, and clauses)—to complain that all the Regulations are not brought in is to show a complete want of understanding on such matters. Every lawyer knows that when a set of Acts of Parliament is consolidated the various Regulations under them which have been issued from time to time are themselves consolidated, and are duly republished in the same understandable form as the statutes to which they relate. What is it that the advocates of "new and amending legislation" really desire? Is it a fresh deluge of exasperating Regulations to harass the distributor? If so, shall we not call that programme by its proper title, as the Nationalisation of the Sources of Supply—seeing that we are already on the verge of denying to the purchaser the right to buy anything that is not of a particular quality, weighed or measured, stamped and certified, signed and countersigned, and so on in the most accentuated D.O.R.A. form? If the true object in view is, as stated in the complaint referred to, to "reinforce existing safeguards against the sale of impure food," it is surely material to ask what need exists for any such reinforcement, or in what direction the law could be made more effective in practice than it now is. Vague statements about the danger to public health, the "postponement of necessary reforms" and the "inadequacy of the existing law" lead nowhere. What is the law on this subject? Section 3 of the Sale of Food and Drugs Act, 1875, provides a £50 penalty for the first offence, and imprisonment with hard labour up to six months for the subsequent offence of mixing any ingredient in any article of food so as to render it injurious to health, or for selling any article so rendered injurious. Section 4 provides precisely the same penalties against the addition of any ingredient to a drug so as to affect its potency; in this case, moreover, it is not necessary to prove injury to health—it is enough that the quality or potency of the drug be lessened. The vendor of such an article cannot protect himself by disclosing the adulterant on a label—

he cannot even escape on the plea of ignorance—for Section 5 puts on his shoulders the onus of proving that he could not have obtained the knowledge by using reasonable diligence. A person who knowingly sells a food or a drug under a false description may be found guilty of obtaining money by false pretences (Regina v. Foster (1877), 2 Q.B.D. 301). Under the Public Health Acts, 1875 and 1896, the Public Health (Regulations as to Food) Act, 1907, and, incidentally, under other statutes, the Minister of Health has ample powers for dealing with the addition of preservatives and colouring matters to foodstuffs. These powers have already been freely exercised, as may be seen by reference to the Preservatives, etc., Regulations of 1925, 1926 and 1927. The use of antimony, arsenic, cadmium, chromium, copper, mercury, lead, zinc, among metallic colouring matters; of gamboge as a vegetable colouring; of picric acid, dinitrocresol, naphthol yellow, aurantia, and rosolic acid among coal-tar colouring substances has been totally prohibited. The use of sulphur dioxide and benzoic acid has been defined and regulated. It was as far back as 1894 that a Select Committee investigated the subject of colouring matter in foodstuffs; and a departmental committee of the (then) Local Government Board, appointed in 1899, reported in 1901. In 1925 the Ministry of Health (as the L.G.B. had then become) made a start in the regulation of preservatives and colouring matters. Why had it not been done earlier? We think the true explanation has been that those responsible for safeguarding the interests of the public in regard to foods and drugs have been too fond of relying upon the tricky procedure provided by Section 6 of the Sale of Food and Drugs Act, 1875, with its penalty for selling to the "prejndice" of the purchaser something not of the "nature, substance and qnality" of the thing demanded. For providing opportunities for publicity and stunt-running it would be difficult to find any section in any Act of Parliament that could anywhere approach this particular clause; whatever may have been its uses as a deterrent, enormous injnstice has been meted out to honest traders by the abuse of this section.

During the many years that it has been in operation thousands of prosecutions have been successful which ought properly to have been brought under Section 3 of the Act, but which, had they been instituted under that section, would not have succeeded—for two reasons, (1) that the legal fiction (in simple language the pretence) of "prejndice" would not have availed, and (2) that it would not have been possible to prove that the article sold was in any way injurious. Is it too much to hope that in any future legislation npon the subject a new basis may be adopted—the basis of officially recognised standards of quality with punishment only for fraudulent or other departure from those standards, and for the sale of anything outside the schedule of standardisation that may be shown to be definitely injurious to health? And is it too much to hope, as well, that an end may be put to the present haphazard "sniping" system that characterises prosecutions under the Sale of Food and Drngs Acts; and that infractions of the law shall be dealt with by reference to representative guild bodies, like the Pharmaceutical Society, charged with maintaining the honour and repute of their craft—recourse being had to prosecution only when there is a clear *prima-facie* case of fraud or injurious adulteration? Something of what has now been done with regard to the standardisation of fertilisers and feeding-stuffs—shorn of some of its red-tape details—might very well be applied to the sale of foods and drugs. But let there at least be an end to what may be called the "lemon-cheese" type of futility.

Royal Commission on Agriculture in India

THE abridged report of the Report of the Royal Commission on Agricnlture in India, the first commission appointed specifically to examine the conditions of agriculture and rural economy in India (Stationery Office, 1s. 6d.), gives in a convenient form the conclusions stated in the full report. Previous commissions on famine, irrigation and co-operation have made recommendations for agricultnral development in India; but the beginning of organised agricultural research was the submission of a scheme by the Government of India in 1903 for the establishment of an agricultural research institute, an experimental farm and an agricultnral college. In 1905 the Indian Government set aside an annual sum for the development of agricultural research, experiment, demonstration and education in the provinces. Colleges were started or organised at various centres, and a separate department of agriculture was constituted in most provinces. The report states that great progress has been achieved by these agricultural departments, and deals at length with the problem of improving their efficiency and extending their activities over the whole area of agricultural India. The formation of an "Imperial Council of Agricultural Research" is advocated. The functions of the Conncil would be the training of research workers, provision of research scholarships and the dissemination of information by publications, lectures and other means. The Commission snggests the lines on which agriculture in India can be improved. There is diversity in local conditions, and agricultural practices vary greatly. The soils of India may be divided into four groups: (*a*) "red" soils of the crystalline tract; (*b*) the black cotton or *regur* soils; (*c*) alluvial soils; and (*d*) laterite soils, all of which vary remarkably in agricultural properties. It is recommended that agricultural departments should undertake soil surveys when some specific problem is to be solved. Experimental data snggest that a balance has been struck and that no further deterioration (decline in fertility) of soils is likely to take place under existing conditions of cultivation. Cases of marked soil deterioration have been caused as a result of erosion of the surface soil by flood water. In the United Provinces this has been arrested by afforestation of ravine tracts, by terracing of land and construction of earth and stone embankments. The report states that little progress has been made in introducing improved manurial treatment into general agricultural practice, as agricultural departments are not yet in a position to give definite advice in regard to economic use of fertilisers; and the Commission suggests that a definite programme of experiment should be laid down to ascertain the extent to which fertilisers can be used with profit. The most readily available supply of plant food is farmyard manure; but a large amount is lost throngh the custom of using cow-dnng cakes for domestic fnel, and no satisfactory alternative has been snggested where coal and wood are dear. Oil-seeds are an important crop in India, and if applied as manure in the form of cake would furnish a large supply of combined nitrogen; the only method by which their advantage can be secured is by the development of oil-seed crushing machinery conpled with changes in cattle management. Bones, bone meal and fish manures are mentioned in this connection; and bone crushing is an industry which, it is snggested, could be taken up on a larger scale. Of the diseases of live stock, rinderpest takes the largest toll. The other serious diseases of cattle are hæmorrhagic septicæmia and foot-and-mouth disease, and the general prevalence of these is one of the most serious obstacles to the improvement of cattle. The method in general use in dealing with rinderpest is inoculation by the "serum-alone" method. The blood serum of a recovered animal is injected into cattle which it is desired to protect. Protection lasts from nine to fifteen days.

Animals are then allowed to mix with infected stock in the hope that they may contract a mild form and thus remain permanently immune. The "serum-alone" method is subject to serious limitations in that it confers complete immunity for less than a fortnight, while infection may persist for a much longer period. Animals are liable to contract disease unless they are reinoculated, and this is not only expensive but often impossible. To ensure infection at the right moment the "serum-simultaneous" or active method of conferring immunity has been devised. At the same time that the serum is used virulent blood from a diseased animal is injected. A mild attack of rinderpest ensues, the tissues of the animal prepare their own antibodies and immunity follows. Experience shows that the "serum-simultaneous" method is safe, effective and readily accepted by cultivators; the conclusion arrived at is that this method is strongly to be recommended and offers the only hopeful means of combating the ravages of rinderpest. The section of the report dealing with communications states that with regard to waterways the only point brought prominently to the notice of the Commission was the extent to which their use is hampered by the spread of water hyacinth in Assam, Bengal and Burma. Various attempts have been made to deal with this pest but with indifferent success, and further research is urgently needed. With regard to marketing, a question which has for long engaged attention is the standardisation of weights and measures, which vary extraordinarily throughout the country and in some provinces from village to village. A committee to investigate this matter was appointed by the Government of India in 1913, but no action has been taken on its recommendations. The present Commission recommends that the Government of India should again undertake an investigation into the possibility of standardising weights and measures and should lay down general principles to which provincial governments should adhere as far as possible without undue interference with local trade customs. Much of Indian produce is exported to foreign markets in an unsatisfactory condition; cotton is badly mixed, jute is badly retted and graded, Indian hemp is irregular in quality. Indian oilseeds, with the exception of groundnuts, are satisfactory. Medical facilities and public health amenities are required, as there is much economic wastage due to diseases which kill or lower economic efficiency—e.g., malaria, cholera, kala-azar and diseases induced by diet deficiency and polluted water supply. Sanitation in any accepted sense of the word is non-existent. Malaria is the most widespread disease. All cinchona plantations (except one) and factories for manufacture of quinine are owned by the provincial governments of Bengal and Madras. The Commission is of opinion that, if the question of malaria is to be seriously tackled, the development of cinchona cultivation in all provinces which contain areas suitable for its growth, the manufacture of quinine and the control of its distribution so far as price within India is concerned, should be taken over by the Government of India. In view of the great importance of extending cinchona cultivation and cheapening quinine, much more scientific investigation is called for than has been undertaken in the past. Among rural industries brought to the notice of the Commission are oil-seed crushing, paper manufacture from bamboo pulp, rope making and lac. The lac industry appears to require organisation so as to bring together all the interests affected, further research is needed to ensure a regular output of good-quality lac, and an inquiry should be made into the economics of lac production. The inquiry of the Commission has extended to the activities of all departments which are closely concerned with rural welfare, and the object is to promote, guide and co-ordinate agricultural research throughout India. It is to be hoped that this object will not pass out of sight.

A Botanical Miscellany

THE report for the year 1927 of the Botanical Society and Exchange Club of the British Isles (Vol. VIII, Part III, pp. 558, 10s.) gives botanists, and in particular field botanists, a fascinating record of well-directed investigation carried out in this country and elsewhere. The contents include, in addition to the report of the secretary, Dr. G. Claridge Druce, F.R.S., original articles on botanical subjects and on plant-hunting excursions, notes on new books and other publications, and a twenty-six-page section giving observations on British species made by members of the Society dnring the past year. The occasional reader is at a loss which to admire more—the highly trained observation evident throughout the volume, or the organising genius of Dr. Druce in inculcating in his subscribers, most of whom are amateur botanists, habits of accuracy in their self-chosen task. The chief part of the learned secretary's own contribution to the issue comprises "British Plants contained in the Du Bois Herbarium at Oxford, 1690-1723," and "A Visit to the Canaries," which are eloquent of his enthusiasm for botanical history and field botany respectively. For more than forty years he has been rescuing from perilous surroundings, remounting, collating and identifying the material of the wonderful herbaria which the Oxford Botanic Garden houses, often working "at my own house in the small honrs after business was over." The annual reports of this Society occupy a distinctive place in the literature of botany, and may be commended to everybody whose interest in the science is a practical one.

A Hundred Years Ago

WHEN in Canterbury a little while ago I had, by the courtesy of the librarian of the Institute there, an opportunity of consulting a file of the "Kentish Gazette" of 1828. A few of the advertisements struck me as quaint enough to be of interest. For instance, under the guise of a poetical effusion on "Dover," an "Occasional Female Resident" there gives hints on sea-bathing:

> At dewy morn bright Beauty loves to lave
> And brace her person in the saline wave;
> Ladies, to injury from such baths beware
> Frequent immersion will the skin impair,
> Engender coarseness and unseemly red
> Where lately Nature's finest tints were spread.
> Yet antidotes there are which, patronized
> By Queens and Princesses, are justly prized
> By female rank and fashion o'er the world;
> Specifics that their attributes unfurled. . . . .

The remainder of the rhyme, which gives the names of certain "antidotes," may, for our present purpose, be omitted. A lady dentist of a century ago peeps out in the concluding lines of the following:—

> Mr. Charles, Surgeon-Dentist, 153 Snargate Street, Dover, being now in Canterbury, embraces this medium of soliciting the attention of the Nobility and Gentry who may require his professional services. Sealed envelopes may be left at Smither's bookshop in St. Margaret's Street. During Mr. C.'s absence from Dover, his wife's abilities may be depended upon, she being fully competent.

A suspicion that even in the "good old days" pure pharmacy did not suffice to make a business pay, is left in one's mind from the mention of "the cup that cheers" in the announcement of a many-sided man:—

> William Cotterell,
> Chemist, Druggist Teadealer, etc.,
> 181 Snargate St., Dover.
>
> begs to inform his friends and the public that he has commenced the above business, and from having been all his life engaged in preparing and dispensing medicines, and for more than four years filled the situation of Dispenser to the Dover Dispensary, trusts he shall be found worthy their confidence and support.
>
> Medical Electricity, Galvanism, Bleeding, Cupping, etc.

Although each of these advertisements represents a type that still persists, the wording is sufficiently quaint to be worth a passing glance.—PAR (4/6).

Can British Medicines be Sold in Germany?

GERMANY offers interesting possibilities as a market for British pharmaceutical and toilet preparations for a number of reasons. It furnishes an admirable field, but there are also numerous difficulties in developing the field that make the work in many ways intriguing. The buying power of Germany is the matter of first importance in considering the country as a field for expansion, and that buying power is of proportions worth considering. The efforts of the German Government to reduce unemployment are meeting with admirable success, and the spending ability of the people in general is rapidly increasing, so that the field is much more fertile than it was during the years immediately following the war. Another factor to be taken into account in the consideration of this market is that there is reputed to be less illiteracy in Germany than in any other nation. That means that advertising matter in magazines and posters is read by a larger proportion of the people there than in any other country. This makes the field appear more attractive.

But all is not roses for the British manufacturer who wants to enter the German market. Competition from domestic manufacturers is exceedingly keen. Germany is well covered by large, and in many cases very well-known, domestic manufacturers who have become rather firmly entrenched during the time when war and the post-war reconstruction barred such British products as were well known there prior to that time. Many of these firms have all the equipment and facilities for doing a large foreign business themselves, as before the war. In addition, it must be borne in mind that every German dispensary has its own laboratory and does its own compounding, and in many instances makes specialities of its own. All German manufacturing interests are somewhat hampered by lack of funds, which prevents their advertising widely and hence retards them to a marked degree. However, the fact remains that the German people are accustomed to German-made articles and it will require a certain amount of convincing to turn them toward British products.

LAWS AND REGULATIONS

Further, the difficulties encountered in the way of meeting domestic competition are as nothing compared to the knowledge necessary not to run foul of the various laws and regulations controlling import duty, transportation, advertising, and claims made on labels. Pharmaceutical preparations imported into Germany should be cleared as ready-packed medicinal goods, in which case the tariff is fixed for goods coming from England at 175 marks per 100 kilos. Customs authorities in various ports often differ in their classifications as to other preparations. If the formula is not given on the wrapping, one custom house may classify it as a secret remedy, in which case the duty will be 10 marks per kilo. The authorities maintain a perpetual list of secret remedies on which the duty is 10 marks, and this list is constantly kept up to date. If the claims on the wrappings appear to the authorities in one custom house as excessive, the duty is again placed at 10 marks. If the alcoholic content of a preparation is in excess of a specified amount, the duty is placed at 12 marks, and numerous other factors may further affect the duty placed on pharmaceutical and toilet preparations.

Unless a manufacturer is in a position to choose his wholesalers carefully, he is apt to run into further difficulties, as many of them are slow in settling their invoices and some of them do not settle up at all. For this reason, and the reasons given above, the most satisfactory way to introduce British proprietaries and toilet preparations into Germany is to get in touch with some German house which is equipped to handle the line, clear through customs, advertise, repack where necessary, and sell the goods. Such a house should be familiar with all the routine and regulations which affect the selling of proprietaries of toilet preparations in Germany, and should be equipped to meet all the difficulties mentioned above. In many instances it is advisable to ship goods into the country in bulk and put them in packages there for the retail trade. This often permits a great saving in duty over the direct importation of the small unit packages. A German house undertaking to handle a British line in Germany should therefore be equipped for the packing into smaller packages of such goods as can be shipped more advantageously in bulk. It is an advantage if the house can also handle the printing of advertising matter and other publicity work necessary for the successful marketing of the goods to be sold. Its primary duty will be the distribution of the goods, but these other factors will be an aid in the successful prosecution of that end. The German market is a good market, and it has already been successfully opened by a number of British manufacturers. But all the possibilities have not yet been exploited, and there is still plenty of room for other manufacturers who desire to enter the field. There are certain obstacles to be overcome, but that is equally true of any market.

Moscow Endocrinology Institute

THE State Institute of Experimental Endocrinology at Moscow (which constitutes the centre for research in internal secretion glands and organo-therapeutics in the U.S.S.R.) is entirely of Soviet origin, and was established during the post-revolutionary period on the initiative of Dr. J. A. Tobolkin, who started experimenting with goats placed at his disposal by the People's Commissary of Health. The thyroid glands removed from these animals furnished a means of curing Basedow's disease, and a desiccated preparation of the glands was named thyrocrin. The institution was first given the name of "Institute of Curative Milk," and the working staff numbered four. Now there is a staff of 120, and the Institute supplies the whole country with endocrinological preparations. Extracts are prepared of orchicrin after the method of the late Dr. Kravkov, and preparations also include adrenalin, mascrin, antiasthmocrin, masmocrin, pitucrin, insulin, thyroxin, ovary hormones and pituitrin. The Moscow Institute has kept pace with similar institutions in Europe, and the quality of the Institute's preparations, demonstrated by clinical results, is not inferior to the foreign products, while the cost is considerably lower.

The glands of slaughtered animals are delivered daily to the Institute, and preparations are subjected throughout to biological control. The latest researches of the Institute are connected with the functioning of internal secretion glands in the living organism. Research in the action of the thyroid gland on animals is made on goats, rabbits, porpoises, and the action of the sex glands on monkeys. The Institute maintains its own breeding farms, which supply material for experiments. The experimental animals of the Institute are kept at two places: in the village of Vsekhsvyatskoye near Moscow, and at Sukhum in the Caucasus. The Vsekhsvyatskoye farm provides excellent conditions for the Karatchai goats bred there, on which experiments are made which have attracted the attention of the Sheep-breeding Department of the People's Commissariat of Agriculture. The transplanting of sex glands has led to remarkable developments in goats, as gain in weight and increase in the amount of hair. The Sukham farm contains chiefly various species of monkeys imported from Africa by Professor I. Ivanov, and by Dr. Tobolkin from Hamburg, Berlin, and Mentona. An extensive farm for the breeding of monkeys has been established at Sukhum, upon an estate given by the Abkhazian Government. The Sukhum farm is the only sub-tropical monkey-breeding farm in the world. In New Guinea the monkey farm maintained by the French Government is located in the tropics. The monkeys furnished by Professor Voronov were the gift of the latter, who maintains constant correspondence with the Institute. The monkeys at Sukhum are thriving, and great hopes are placed upon the Sukhum biological station. It is hoped that in future years it will not be necessary to spend large sums of money on the purchase and transport of monkeys from Africa.

Key Industry Duties

SOMETHING in the nature of a bombshell has been dropped in the merchants' camp by H.M. Customs in the issue of their leaflet of new instructions to importers when entering goods liable to key industry duty. These new conditions came into force on September 1, and firms interested should make a point of obtaining a copy of the leaflet, which may be obtained at the Custom House, and studying the whole subject. The old conditions are to be swept away, and no longer will the Department accept without question invoices as evidence of c.i.f. values at the time of importation and levy duty on the prices stated thereon. For something like seven years Customs have laid it down in their instructions that their interpretation of the Act on valuation (the price which an importer would give for the goods c.i.f. at the time of importation) was a "fair c.i.f. price at the time of importation," and this was a perfectly just interpretation. In the cases of goods on consignment, the prices stated on the invoices submitted by the importer were rarely questioned so long as the figure mentioned compared favourably with their records of prices declared by other importers of similar goods. The circumstances of the import and the conditions of sale arranged between seller and buyer or shipper and consignor were not considered to affect "the value of the goods c.i.f. in bond at the time of importation." It was solely a question of Customs satisfying themselves that the value declared by the importer was reasonable and was in fact "the price which an importer would give for the goods if the goods were delivered to him c.i.f. at the time of importation." The same Customs forms of entry and declaration were filled in by importers of goods "purchased outright," and of goods "on consignment" when clearing dutiable goods through Customs.

NEW PROVISIONS

The new instructions provide for importers to complete and sign as a declaration one of three forms, according to the circumstances and conditions of the importation. These forms draw a definite and wide distinction between "purchases outright on the open market" and imports by agents, whether the goods are on consignment and for sale on a commission basis or are purchased outright, as is now usual, by agents who prefer to act as "sole concessionnaires." The third form of declaration refers to imports of packed specialities and proprietary lines relating to which there are special circumstances to be taken into account when calculating the correct c.i.f. value. It would appear that Customs are attempting to assume authority to make certain changes in the Act as originally agreed to in 1920, and renewed in 1925, by Parliament, on the question of assessment of values on which duty is levied, and their proposals are to extend to as far as the result of sales in this country, possibly some months after importations take place.

The first declaration is for use when the importation consists of dutiable goods which the importer has "purchased outright on the open market," and there is little in it to object to except the last paragraph, which inquires whether persons participating in the control of the seller's business also participate in the control of the importer's business. It is not made clear whether shares of a British public company, being the importer, held by a member of the vendor's firm would constitute "control" or not.

The second form of declaration is to be made by importers acting as agents and importing goods "on consignment" and by "sole concessionnaires" importing goods which they have purchased outright, and contains six questions, the purport of which is to ascertain not the c.i.f. value at the time of importation but the price at which the goods are, or may be ultimately, sold at after importation. In one instance (question 3) the importer is asked to declare that the goods on consignment will be sold at the price stated on the invoice. It would indeed be a happy state of affairs if an importer could guarantee that he will sell goods worth £100 c.i.f. at the time of importation at that figure some weeks or more afterwards. It seems that Customs have ignored or failed to acknowledge fluctuations in values. Question 4 on this form asks for particulars of commission paid to the agent or sole concessionnaire; and it is understood that, for instance, where the invoice shows a price paid of £100 less 5 per cent., Customs will attempt to levy duty on the gross amount and not, as hitherto, on the net amount paid to the shipper for the goods. The Act is, we suggest, perfectly clear on the point, requiring that duty shall be paid "on the c.i.f. price which an importer would give for the goods." At the bottom of this form importers acting as agents or sole concessionaires are asked to agree to furnish particulars of the ultimate sales of the goods when called upon to do so. In the second paragraph on page 1 of the leaflet it is stated:—"In order to establish the acceptability of invoices as a basis for assessment of duty and to obviate any necessity for the detention of goods pending inquiries on this point, the Commissioners invite importers to give one of the certificates provided in Form C 105 (Appendix I)." In this statement there appears to be a thinly veiled threat that, if importers do not conform to the demands, they will find the Department detaining their goods indefinitely on the merest pretext.

CUSTOMS AND THE IMPORTER

It is for Customs to either accept or reject the value declared by the importer, and in the latter case for the Department to fix a value themselves, in the event of which the importer can either pay duty on the higher valuation or appeal to the referee, under the appropriate section of the Act, who will decide the proper c.i.f. value. The exceedingly few cases of submitting false invoices brought to light by an ever-vigilant Customs detective staff during the past seven years is good proof that the merchants as a whole have not attempted to deceive the Department and defraud the Revenue. It is, of course, quite possible that the whole idea is an acknowledgement on the part of the Department of their inability to define with accuracy and fairness c.i.f. values. It is not surprising to hear that the Executive Council of the British Chemical and Dyestuffs Traders' Association have advised their members to refuse to make these declarations when invited to do so. It is understood to be the intention of the Association to make representations to Customs with a view to obtaining the withdrawal of all demands that relate to firms' business connections and sales prices obtained in this country, which, they hold, is no concern and outside the proper scope of the Department, and on the point of sales prices obtained in this country, that they are in no way a proper or practical and fair basis for assessing c.i.f. values at the time of importation.—*X. Y. Z.* (6/9).

American Exports of Alkalis

THE exports of caustic soda from the United States during 1927 amounted to 50,444 short tons. The trade is very largely concentrated in Asiatic and Latin-American markets. The five most important markets absorbed 70 per cent. of the exports and the first ten 89 per cent. The principal markets in the order of their importance were: Japan, 14,406 tons; Mexico, 8,493; Cuba, 4,144; Canada, 4,190; Brazil, 4,179; Argentina, 4,039; Philippines, 1,922; Java and Madura, 1,546; Italy, 1,076; and China, 900. An analysis of the destinations of the 20,401 tons of soda ash exported in 1927 reveals that over 80 per cent. of the shipments were destined to five countries, as follows: Mexico, 7,088 tons; Canada, 4,364; Japan, 2,541; Cuba, 2,211; and Argentina, 665. Although the 9,144 tons of sodium bicarbonate exported in 1927 was distributed throughout world markets, four countries accounted for 85 per cent. of the tonnage. These were: Canada, 5,257; Japan, 1,171; Cuba, 715; and the Philippines, 599 tons. American sal soda was marketed in 31 foreign countries during 1927, total sales having reached 6,376 short tons. Many of the countries, however, took exceedingly small quantities; in fact, the shipments to 19 were less than ten tons each. The two principal markets for sal soda were Canada (4,777 tons) and Cuba (5,135 tons). Trade with these two countries accounted for 93 per cent. of the total.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for hulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may he incurred in garhling, packing, etc. Qualities of chemicals, drugs, essential and fixed oiis, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected quaiities of natural products even in hulk quantities.

42, Cannon Street, E.C.4, September 13

WHILST business cannot be described as good it might be said to be quietly good with a steady undertone. Interest is being displayed in a number of articles, and the price movements are also of interest. The Spanish variety of ergot has had a big setback, and we understand very large stocks are held by certain speculators who have been banking on a good demand where the Russian could not be used. The latest quotations for Belgian chamomiles also indicate a downward movement, and pimento has eased down a bit after the recent jump. Other changes in the crude drug section all show a firmer tendency. Almonds and cocoa butter are definitely dearer, while mercury, kola nuts and senega are all firm. Seeds are in fair demand, with mustard dearer and anise and canary firmer. Menthol will probably be maintained at the present rates or go dearer in the near future. The important change in the essential oil group is the decline in the spot value of orange, while anise and geranium are both very firm. More life is evident in one or two articles among the industrial chemicals, where barium chloride is much firmer. Of the coal-tar products, pitch has declined and creosote oil is easier. In pharmaceutical chemicals citric acid and methyl salicylate are dearer, milk sugar easier, and acetanilide and paraformaldehyde a shade lower. The feature in fixed oils is a sharp advance in palm oil, though palm kernel and soya bean are easier. The value of turpentine shows an all-round appreciation, and resin is also firmer. A fair volume of business is being done in lubricating oils with benzol very firm. Fish oils are steady, and tallows are slightly dearer. Rubber has declined again, and Japanese wax is easier on spot.

Higher	Firmer	Easier	Lower
Almonds	Anise seed and oil	Chamomiles	Acetanilide
Citric acid	Barium chloride	Creosote oil	Ergot (Sp.)
Cocoa butter	Canary seed	Japan wax	Orange oil
Methyl salicylate	Geranium oils	Milk sugar	Paraformaldehyde
Mustard seed	Kola nuts	Palm kernel oil	Pitch
Palm oil	Mercury	Pimento	Rubber
Tallow	Resin	Soya bean oil	
	Senega		
	Turpentine		

The next drug auction will be held on Thursday, September 20.

THE UNITED STATES crude drug and botanical trade for the half-year January-June, 1928, is returned as $5,400,000 worth of imported produce, while exports were only about one-third of this figure at $1,600,000. A notable feature is the import figure for pyrethrum flowers, which was almost treble last year's return—7,900,000 lb. valued at $1,950,000.

Crude Drugs, etc.

ALMONDS.—A sharp advance in Sicilians has reacted on the Persian product, and bids put forward at from 160s. to 170s. per cwt. for September shipment, London terms, have not resulted in business. Dealers are now prepared to pay 175s. per cwt. for shipment, and sales have been made on the spot at 170s.

ALOES.—T.q. is quoted at 72s. c.i.f.

ANTIMONY.—The tone continues steady, but there is not much business doing in Chinese regulus, which is worth £39 deliverod from warehouse. C.i.f. offers for shipment are not being pressed forward, and the quotation is about £38 for September-October shipment. Advices from China are firmer, with somo talk of higher prices. English regulus has remained at £58 to £60 according to brand.

ASAFETIDA is unchanged with values at 90s. to 140s. per cwt., according to quality.

BALSAMS—*Tolu* is worth 3s. 10d. to 4s. per lb., according to quantity. *Peru* is 7s. per lb. on the spot. *Canada* on spot 6s. 6d. per lb. *Copaiba* 1s. 10d. to 2s. per lb.

BELLADONNA LEAVES are quoted at 55s. per cwt. c.i.f.

BELLADONNA ROOT is quoted at 60s. per cwt. c.i.f. for 0.45 test.

CADMIUM.—The demand is still more than sufficient to take caro of the orders coming on the market, but Australian agents' terms are somewhat wide, this being largely accounted for by the discrimination in vogue as regards regular customers and other users. Current quotations range from 2s. 6d. to 2s. 9d. per lb. and even more. The outlook does not suggest any possibility of reactionary conditions after the recent considerable rise, while the uses of cadmium appear to be well on the increase.

CANNABIS INDICA.—Considerable interest has recently been shown in this article in view of the definite statement made by the Home Office that licences will be required on and after September 25 to either import or export both the Bombay and African variety. A certain amount of business is passing at the moment. Genuine Bombay tops are fetching 30s. and good green African 3s. per lb.

CARDAMOMS are easier again for shipment, and 3s. 4d. per lb. c.i.f. is quoted for green Aleppy.

CASCARA SAGRADA is steady at 53s. per cwt. c.i.f. for this year's bark.

CHAMOMILES.—The new crop are somewhat cheaper, and fair white flowers can now be had at from 180s. to 190s. c.i.f., but the size of the flowers would be smaller than the so-called first, and probably a few more brownish flowers mixed with them. In the old crop a fair business is reported between 100s. and 120s. on the spot.

CLOVES.—No Zanzibar arrived last week, but 281 bales of Madagascar were landed. Deliveries were 253 bales of Zanzibar and 50 bales of Madagascar. The stocks are now 4,382 bales of Zanzibar and 1,808 bales of Madagascar, a total of 6,190 bales, against 11,954 last year. The market is rather dull, with the spot price at 11d. per lb., nominal, for Zanzibar. For shipment 11½d. is asked for August-October, but there are sellers at 11d. for October-December.

COCOA BUTTER is dearer, the values now being:—Prime English, 1s. 7d. per lb. on the spot and C.F.R. 1s. 8½d. in one-ton lots. This is a reflection of the higher prices paid at the Dutch auctions a fortnight ago.

ELM BARK in five-lb. bundles is quoted 1s. 4d. to 1s. 6d., according to quantity.

ERGOT.—Owing to the admission into the United States of varioties other than Spanish there has been a heavy drop in the value of Spanish, and on the spot it can be obtained at 3s. and to come forward 2s. 9d. c.i.f. The so-called Russian is steady at 1s. 9d. on the spot and 1s. 7½d. c.i.f.

GALLS.—Bagdad show no change and are absolutely neglected, with no inquiry whatsoever. Blues are nominally 60s. per cwt., greens 55s., and whites 50s. spot. Stocks on August 31 were 1,430, against 1,207 last year; landings to that date totalled 617 and deliveries were 348.

GENTIAN is quoted at 35s. c.i.f.

GRINDELIA is quoted at 6½d. c.i.f.

GUM ACACIA is unchanged. Values of Kordofan on the spot are:—Natural, 45s. per cwt.; cleaned, 47s. 6d. per cwt. For shipment the c.i.f. prices are:—Natural, 45s.; cleaned, 46s. 6d. Arrivals from interior are reported to have ceased. The stocks on August 31 were 8,091, compared with 9,058 last year. Landings to date totalled 11,908 and deliveries were 11,596. Quotations so far have been beyond buyers' ideas. No business in Persian insoluble can be reported with the exception of small transactions at 54s. per cwt. for October shipment. The demand is slow and buyers are reluctant.

KOLA NUTS.—Good sound West Indian halves have been sold at 7d. to 7½d., and parcels of any size do not seem to exist. We understand some forward offers were done on this side, but not accepted by the shippers, and this transaction has made the price of the article much firmer.

LOBELIA is firm at 7½d. per lb. c.i.f. and about 9d. on the spot.

MAGNESIUM.—The market is steady at 4s. to 4s. 3d. for small ingots and sticks; there is a moderately active demand on this basis with terms for powder standing at 5s. 6d. to 6s. 6d. per lb., according to quality. A few small parcels have been coming to this country from abroad.

MASTICH.—Stocks are small, the demand quiet, and sales in small quantities are being made at 2s. 7d. per lb.

MENTHOL remains steady, business on the spot having been done in Kobayashi-Suzuki at 19s. 6d., and probably with some demand prices would again reach 19s. 9d. to 20s. To arrivo, October-December shipment, business has been done at 19s. 3d. c.i.f., with further buyers.

MERCURY.—There has not been a great deal doing, but the market has been strong at further advancing prices, with sellers quoting about £23 17s. 6d. to £24 per bottle, less the

usual discount for spot parcels. Arrivals from the Continent have been again on the light side, and sellers generally are reserved in the continued absence of actual offers on the part of either the Spanish or Italian mines. Some inquiries are reported from the Eastern market, but the placing of orders is apparently difficult in the present state of the market. The New York quotation has been raised to $135 to $137 per bottle, duty paid. While it is expected that the new arrangements come to between Italy and Spain will come into force on October 1 next, no definite particulars have yet leaked out regarding the establishment of a central selling office.

PEPPERS.—During last week 20 tons of black were landed, but no white arrived. Deliveries were 225 tons of black and 26 tons of white. The stock of black is now 3,397 tons, against 3,061 tons in 1927, and 511 tons of white, against 893 last year. Prices are about unchanged and firm. Singapore on the spot is worth 1s. 4¼d. per lb. and 1s. 3d. c.i.f. October-December; Lampong is 1s. 3½d. spot and 1s. 2¼d. October-December; Tellicherry for January-March shipment in 125s. per cwt. c.i.f. and worth 1s. 5½d. per lb. on the spot; Aleppy on the spot is available at 1s. 4½d. per lb. White Muntok on spot is 2s. 1d. per lb., 1s. 9¼d. c.i.f. for August-October, and there are buyers at 1s. 9d. c.i.f. for October-December shipment.

PIMENTO showed 256 bags delivered last week, but no landings. Stocks are now 2,061 bags, against 1,814 last year and 2,419 in 1926. Values are slightly easier at 10d. per lb. on the spot and 89s. per cwt. c.i.f. for September-October shipment.

RUBBER.—The market has further declined, spot at one time having been done down to 8¼d. per lb., but at the close improved to 8½d. It would appear that the recent weakness is mainly due to heavy liquidations of September rubber, and very heavy quantities have been flung on the market at different periods. We understand that for the time being the liquidation has ceased, and that heavy shipments, mainly to New York, will be made during the next few weeks; the market, however, is in a highly sensitive condition. Stocks continue to decline, and last week arrivals totalled 1,149 tons, whilst deliveries amounted to 1,605 tons, showing a further decrease of 456 tons in the stocks. The London stock now stands at 31,477 tons, against 66,148 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.):—No. 1 standard ribbed smoked sheet, spot and September, 8½d.; October-December, 8 1/16d.; January-March, 8⅞d.; April-June, 9d. per lb.

SAFFRON is very firm at the source, and stocks, particularly of the better qualities, are becoming short. This will not be rectified till the new crop arrives in November. Values on the spot are 55s. to 65s. per lb., according to grade.

SEEDS.—Business is somewhat better and prices in some articles show an upward tendency. ANISE.—Spanish, 52s. 6d., and Russian, 28s. CANARY is firmer. Mazagan sellers are holding for 17s. 3d. spot, and 16s. 9d. c.i.f. is quoted for forward shipment. Good Saffi has been sold at 16s. 9d. spot, and 16s. 3d. is quoted forward. CUMIN.—Maltese is 54s. spot and 55s. c.i.f. is quoted for new crop. Morocco is 47s. spot and 45s. 6d. c.i.f. for September-October shipment. CORIANDER.—Morocco is 21s. 6d. spot and forward is firmer at 20s. 6d. c.i.f. September-October. Russian is 21s. 6d. spot. FENUGREEK.—Morocco is 17s. spot and 16s. 6d. c.i.f. for shipment. HEMP.—Manchurian is 20s. on the spot. LINSEED.—Mazagan is 20s. 6d. spot and 18s. 7½d. c.i.f. for September-October. MUSTARD.—English is firmer at 27s. to 30s. 6d. spot. FENNEL.—Indian is 60s. spot and 62s. 6d. c.i.f.

SENEGA, which was thought might come down a little, is firmer, and although business has been done at 4s. 10½d. to 4s. 11d., 5s. is now asked. The new crop is said to be less than anticipated, and it is generally thought that, as the season advances, prices will gradually get to somewhere about last year's figure.

SERPENTARY is quoted at 3s. c.i.f.

SHELLAC.—The market is firm, the closing values being: T.N. usual standard orange at 225s. on the spot; for October delivery sales were made at from 220s. to 222s. 6d.; there are sellers for arrival at 207s. 6d. for August-October shipments. Fine orange is 230s. to 330s. on the spot; pure button 240s., and A.C. cakey 220s. to 230s.

STRAMONIUM LEAVES.—Good green Hungarian are given as 57s. 6d. per cwt. c.i.f.

TRAGACANTH remain steady, but the selection of qualities is very poor. Bagdad, firsts quoted at £27 to £28 per cwt.; seconds £22 to £24; thirds, £18 to £20

WAX (VEGETABLE).—*Carnauba* is firmly held at the recently advanced prices; fatty grey is quoted at 125s. per cwt. on the spot and 115s. c.i.f.; chalky grey is 127s. 6d. spot and 116s. c.i.f.; Baixa is unchanged at 200s. on the spot; Primera is 207s. 6d. spot and Mediana 195s. spot. *Japanese* is easier on the spot at 81s. 6d., but unchanged for shipment at 75s. 6d. c.i.f.

Essential Oils

BUSINESS is still quiet, although one or two articles are now receiving attention. Anise is very firm and the geraniums are also in a strong position. Holders of orange have dropped the price following an offer made by a Messina representative of new crop at a lower level.

U.S. STATISTICS for the half-year January-June, 1928, show that imports of essential oils into the States reached a total of $3,470,000, and exports amounted to $880,000. The imports of orange and lemon oils were higher, the figures for the former being $402.000 (128,300 lb.) in 1928, against $273,000 (121,300 lb.) in the corresponding period of 1927. Lemon receipts were $748,000 (378,000 lb.) from January-June, 1928.

ANISE (STAR).—"Red Ship" is receiving more attention. The seasonable demand should send prices up, for the recent c.i.f. sales will not arrive much before the end of next month. Business was done during the week at 2s. 2½d. per lb. c.i.f. in cases, but further orders at that figure were refused. On the spot 2s. 4d. has been freely paid in both leads and cases. Forward business in drums has been done at 2s. 0¾d. per lb. c.i.f.

BAY is worth 7s. 3d. per lb. on the spot for 50-55 per cent. phenols.

BERGAMOT is unchanged at 23s. 6d. per lb. on the spot and 23s. c.i.f. for 37-38 l.a.

CASSIA is unchanged at 6s. per lb. on the spot for large quantities and 5s. 3d. c.i.f. for 80-85 per cent. c.a. guaranteed free from alcohol.

CEDARLEAF is quoted at 6s. per lb. c.i.f., and it is said that an increased demand in the States has made exporters rather indifferent as to whether they do business or not.

CEDARWOOD stands at 1s. 1d. per lb. c.i.f., with spot values at 1s. 2d. in drums and 1s. 3½d. in cases.

CLOVE on the spot is steady at 6s. 6d. per lb. for English distilled.

EUCALYPTUS on the spot is quoted at 1s. 9d., with the shipment value at 1s. 8½d. per lb. c.i.f. for 70-75 per cent.

GERANIUM.—Bourbon is in a strong position at 19s. 3d. per lb. c.i.f. and 19s. 6d. on the spot. Algerian is worth 17s. per lb. c.i.f., but second-hand parcels are still available on the spot at something below that figure.

JUNIPER BERRY.—Genuine Hungarian is quoted at 8s. 6d. per lb. on the spot. B.P. is available at 6s. 3d. per lb.

LAVENDER is firm on the spot at 15s. per lb. for 38-40 per cent. l.a.

LEMON for immediate shipment is quoted at 14s. per lb. c.i.f., with the spot value at 14s. 3d. Speculative offers of new crop have been made at 12s. per lb. c.i.f.

LIME.—West Indian distilled is worth 24s. 6d. per lb. on the spot in quantities.

ORANGE.—Sicilian on the spot has now been reduced by most holders to a 24s. level following speculative offers of new crop at 23s. 6d. per lb. c.i.f. West Indian is still held at 23s. 6d. per lb. for best grades.

PEPPERMINT.—New crop American natural tin oil is quoted at 13s. to 13s. 6d. per lb. c.i.f., with redistilled at 14s. 6d. c.i.f. Business is rather quiet, and 14s. to 14s. 6d. is the spot value. Japanese dementholised is also quiet and 7s. 6d. is the nominal value for Kobayashi-Suzuki. For shipment 7s. 3d. per lb. c.i.f. is quoted for all positions. Franco-Mitcham is higher at 27s. 6d. per lb. on the spot following reports that the crop is short.

SANDALWOOD.—Exports from the Madras Presidency for the year 1927-28 totalled Rs.5.22 lakhs against Rs.4.37 lakhs the previous year. The increase was accounted for in supplies to the United States, which rose from Rs.3.56 lakhs to Rs.4.13 lakhs, and also the German statistics, which were Rs.1.02 lakh against Rs.0.52 lakh in 1926-27. Nothing is known yet of the auctions in Mysore, and meantime the controlled prices are unaltered.

SPEARMINT on the spot is worth 19s., with the forward price at 18s. 3d. c.i.f.

SPIKE.—Spanish is very firm at 3s. 2d. per lb. on the spot in quantities, and forward business continues to be difficult.

VALERIAN is quoted at 22s. per lb. on the spot.

VETIVERT.—Bourbon on the spot is worth 21s. per lb.

WORMSEED (CHENOPODIUM) for shipment is 10s. 9d. c.i.f. and on the spot is worth about 11s. 6d. per lb.

WORMWOOD is still very scarce at 50s. per lb. on the spot.

The following arrivals have taken place from the countries indicated during the period August 29 to September 4 (inclusive): Bergamot (It.), 4 cs.; camphor (Jp.), 13 dm.; cassia (Ch.), 5 dm.; citronella (Jv.) 4 dm., (Cey.) 3 dm.; dill (Ger.), 2 cs.; eucalyptus (Sp.) 65 cs., (Aust.) 97 cs. 12 dm.; geranium (Fr.), 2 dm.; lavender (Sp.) 5 dm., (Fr.) 3 dm.; lemon (U.S.) 17 dm., (It.) 47 cs.; lemongrass (Fr.), 1 cs.; orange (It.), 6 cs.; patchouli (Strs.), 7 cs.; peppermint (Jp.) 125 cs., (Ger.) 35 cs., (Fr.) 10 cs., (U.S.) 5 cs.; sandalwood (Aust.) 60 cs., (Br. Ind.) 80 cs.; wormseed (U.S.), 7 cs.; undescribed (Fr.) 15 cs., (Ger.) 4 cs.

The following arrivals have taken place from the countries indicated during the period September 5 to September 11 (inclusive): Apricot (U.S.) 10 dm.; bergamot (It.), 14 cs.; cananga (Jv.), 1 dm.; cardamom (U.S.)., 1 cs.; cassia (Ch.), 10 cs.; cinnamon (Cey.), 1 dm.; clove (Madag.), 1 dm.; eucalyptus (Aust.), 20 cs.; geranium (Réun.), 2 dm.; lavender (Fr.), 1 cs.; lemon (It.), 299 cs.; patchouli (Ger.) 1 cs., (Strs.), 11 cs.; peppermint (U.S.) 8 dm., (Jp.) 35 cs.; pine (Ger.), 2cs.; rose (Fr.), 2 cs.; thyme (Sp.), 3 dm.; wormseed (U.S.), 1 cs.; undescribed (Fr.), 8 cs.

Pharmaceutical Chemicals, etc.

A FURTHER big jump in values for citric acid is recorded and supplies are reported to be scarce on spot. Methyl salicylate is dearer on a much steadier market. Milk sugar is slightly easier. Acetanilide is a point cheaper for quantities. Paraformaldehyde shows a further cut in price this week. Other products are about unchanged, with business continuing rather limited.

ACETANILIDE is unchanged as quoted at 1s. 5d. to 1s. 6d. per lb. for B.P. crystals and powder; some offers may bo slightly less for quantities.

AMIDOPYRIN is dull at about 7s. 9d. to 8s. per lb. spot.

ASPIRIN.—Rather easier conditions prevail here, with home makers quoting five-cwt. lots from 2s. 4d. per lb. up to 2s. 6d. for small parcels. Continental material is offered at competitive prices.

BARBITONE is meeting with little demand: spot offers are at about 5s. 8d. to 5s. 9d. per lb.

BENZONAPHTHOL continues to be offered on spot at 2s. 10d. per lb., in five-kilo. lots.

BISMUTH SALTS are unchanged on a steady market: carbonate, 9s. 9d.; subnitrate, 8s. 3d. per lb., in cwt. lots.

BROMIDES.—These markets are keeping steady, with business rather limited in volume: dealers quote ammonium, 1s 11d.; potassium, B.P. crystals, 1s. 7½d.; granular, 1s. 7d.; sodium, B.P., 1s. 10d. per lb. for quantities, in cases. British makers' list prices: ammonium, 1s. 11½d. to 2s 1d.; potassium, B.P., 1s. 8¼d. to 1s. 9¾d.; sodium, B.P., 1s 10½d. to 2s. per lb.

CALCIUM LACTATE.—Business is not of much account: quoted from 1s. 1½d. to 1s. 2½d. per lb., as to quantity.

CHLORAL HYDRATE.—Business has been satisfactory: duty-paid crystals, 3s. 1½d. to 3s. 3d. per lb., as to quantity.

CITRIC ACID (B.P. CRYSTALS).—The position on spot is much firmer this week. There appears to be very little material offering, with the price quite 2s. 3d. per lb., less 5 per cent. Home makers are said to be without raw material, and as yet there are no offers from the Continent, the recent quotation of 1s. 11d. c.i.f. having been withdrawn.

CREOSOTE (B.P.) is unchanged at 1s. 8d. to 1s. 8½d. per lb.

CREOSOTE CARBONATE on the spot is offered at 5s. 10d. to 6s. per lb.

GUAIACOL CARBONATE is seldom called for: quoted from 4s. 6d. to 4s. 9d. per lb.

HEXAMINE.—Offers on spot are competitive and very cut prices are quoted for big business: small crystals and free-running crystals, 1s. 11d. to 1s. 11½d. per lb., in quantities; small parcels, from 2s.

HYDROQUINONE continues at controlled prices: half-ton lots, 3s. 7½d. up to 4s. 6d. per lb. for 7-lb. parcels.

LACTIC ACID (B.P.).—Convention prices are steady: five-ton lots, 1s. 6½d.; one ton, 1s. 7½d.; ten cwt., 1s. 8½d.; two cwt., 1s. 9½d.; one cwt., 1s. 10½d. per lb., carboys free, carriage paid.

METHYL SALICYLATE (B.P.) shows a sudden change, with prices now steady at 1s. 4d. to 1s. 6d. per lb., the lower price for minimum ton lots.

METHYL SULPHONAL is offered on spot from 8s. 9d. per lb.

MILK SUGAR is slightly cheaper for quantities: Dutch, B.P., 54s. 6d. to 56s. per cwt., according to quantity.

PARAFORMALDEHYDE is easier, with quantities in kegs offered down to 1s. 7d. per lb. for 100 per cent. powder; small parcels, 1s. 8d.

PARALDEHYDE is unchanged: quantities in carboys, 1s. 1d.; small lots, in bottles, 1s. 3d. per lb.

PHENACETIN has not met with much business this week: large quantities might be obtained at slightly under the quoted rates of 2s. 4d. to 2s. 6d. per lb.

PHENAZONE in cwt. lots on spot is worth 3s. 9d. per lb.; smaller parcels, 3s. 10d. to 3s. 11d. per lb.

PHENOLPHTHALEIN continues at 5s. 11d. to 6s. 1½d. per lb., as to quantity; market quiet.

POTASSIUM PERMANGANATE (B.P.) has remained quiet except for small spot business: steady at 5½d. per lb., in drums; small lots, 6d.

RESORCIN is unchanged at 2s. 11d. to 3s. 1d. per lb.

SALICYLIC ACID (B.P.) is steady at 1s. 3d. to 1s. 6d. per lb., as to quantity.

SALOL continues at the controlled prices: two cwt., 2s. 3d.; one cwt., 2s. 4½d.; 56 lb., 2s. 5d.; small parcels, 2s. 6d.

SODIUM BENZOATE (B.P.) is in fair demand, with foreign powder in two-cwt. barrels, at 1s. 7½d. per lb.; small parcels, from 1s. 8d.

SODIUM DIETHYLBARBITURATE is quiet: dealers offer spot at about 7s. 10d. per lb.

SODIUM SALICYLATE (B.P.).—Quotations: crystals, about 1s. 7½d.; powder, about 1s. 6½d. per lb. for quantities, in cases. British makers' list prices are: powder, 1s. 9d. to 1s. 10d.; crystals, 1s. 10d. to 2s. per lb., but it is understood that they are meeting competition.

SULPHONAL is quiet as quoted on spot at 6s. 6d. per lb.

TANNIC ACID.—B.P. *leviss* is unchanged at 2s. 10d. per lb., in cwt. kegs.; small parcels, 3s. to 3s. 3d. per lb.

TARTARIC ACID (B.P. CRYSTALS) continue dull and unchanged on quotation on spot, with foreign material at 1s. 4d. to 1s. 4½d. per lb., less 5 per cent.

TERPIN HYDRATE is seldom called for: quantities to arrive from 1s. 5d. per lb.

THYMOL is very quiet: fine white synthetic is quoted at about 9s. 6d. per lb., in cwt. lots.

VANILLIN (100 per cent. from cloves) remains quiet and unchanged: quotations are from 16s. 6d. to 17s. per lb.

Industrial Chemicals, etc.

London, September 12.

CONDITIONS in this market continue generally slow, although one or two products show a little more life as regards inquiry. The new prices for acetone to come forward are not yet available. There is a shortage on spot of supplies of barium chloride.

ACETONE.—Negotiations as to the new prices for Continental material to come forward have not yet been completed, and importers are not yet in a position to state their prices.

ACETIC ACID is in fair demand: 80 per cent. technical, £35 15s.; 80 per cent. pure, £37 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demi-johns; glacial, in barrels, £56 per ton, ex store.

ALUM is rather dull: lump, £8 7s. 6d. to £8 10s. per ton, in casks, ex store; slightly cheaper forward.

AMMONIA (ANHYDROUS) is unchanged, with the usual small spot business moving: 99.95 per cent., in loaned cylinders, 9d. to 11d. per lb., carriage paid; slightly less for contracts.

AMMONIUM CHLORIDE is meeting with very little inquiry: grey galvanising on spot is offered at £21 per ton, in casks; slightly cheaper for contracts.

ARSENIC.—There is no improvement in the demand, while inquiries are still confined to small lots, and sellers of white Cornish 99 per cent. are asking £16 10s. to £16 15s. f.o.r. mines. Mexican high-grade is said to be offering on more competitive terms on the basis of about £15 10s. c.i.f. Liverpool.

BARIUM CHLORIDE is firmer: 98 to 100 per cent. prime white crystals, £9 7s. 6d. to £9 12s. 6d. per ton, in casks, ex store; forward, £7 15., f.o.b. Continent.

BLEACHING POWDER is unchanged at from £6 12s. 6d. to £7 per ton for 35 to 37 per cent. available chlorine, carriage paid.

COBALT OXIDE.—Fair buying is reported on the basis of 8s. per lb. for black and 8s. 10d. for grey. These terms are well under the official quotation, which are understood to be 10s. per lb.

COPPER SULPHATE.—The market is still on the quiet side, only a limited amount of export business being reported, and f.o.b. terms for casks, less 5 per cent. discount, stand at about £25 to £25 5s.

CREAM OF TARTAR remains slack, with foreign 99 to 100 per cent. material offering from 94s. to 96s. per cwt., less 2½ per cent.

FORMALDEHYDE is in fair demand, with rather keen competition: 40 per cent. by volume, about £37 per ton, in cases, ex store.

FORMIC ACID.—The demand is not of much account: 85 per cent., £46 to £46 12s. 6d. per ton, in carboys, ex store.

ISOPROPYL ALCOHOL.—Business has been slow of late: reliable material, 99 to 100 per cent., 10s. to 10s. 6d. per gallon, carriage paid.

OXALIC ACID is meeting with more inquiry, with prices steady: quantities from £29 15s. to £30 per ton; cwt. lots, 33s

POTASH CAUSTIC.—The demand remains slow; Convention prices are unchanged: 88 to 92 per cent. solid spot, less than one ton, £36 15s.; one to five tons, £33 5s.; five to fifteen tons, £32 15s., in drums, ex store; 30s. per ton, less c.i.f., in all cases.

POTASSIUM CARBONATE.—Business is poor: 90 to 92 per cent., £25; 96 to 98 per cent., £26 per ton, in casks, ex store; slightly less for contracts.

POTASSIUM CHLORATE is moving in small lots of a ton or two: quantities to come forward, from 2⅞d. per lb., ex wharf; spot parcels, from 3¼d. per lb.

POTASSIUM PERMANGANATE (COMMERCIAL) is very steady as quoted at 5¼d. per lb., in two-cwt. drums, ex store.

POTASSIUM PRUSSIATE is unchanged, with about normal business moving: quantities, £63 10s. to £65 10s. per ton, in casks, ex store; single casks, 7d.; small parcels, about 7½d. per lb.

SAL AMMONIAC.—The demand is more active: dog-tooth crystals, £29; medium, £28; fine white crystals, £18 per ton, in casks, ex store; slightly less for contracts.

SODIUM ACETATE.—Spot supplies are limited: quoted at £20 10s. per ton, in casks, ex store.

SODIUM CHLORATE remains quiet so far as big business is concerned: quantities to arrive, 2¾d. per lb., ex wharf; small spot parcels, from 3d. per lb., ex store.

SODIUM HYPOSULPHITE is quieter: dealers quote pea crystals, £15 to £15 2s. 6d., in one-cwt. kegs; commercial, £9 10s. per ton, in casks, ex store; British makers' price for pure crystals, to home consumers on contract, £15 per ton, carriage paid to buyer's station.

SODIUM NITRATE.—The new scale of price for the U.K. as given last week continue in force, as follows: September, £10 per ton, rising 2s. each month up to £10 12s. for March, and then £10 13s. per ton for April.

SODIUM PRUSSIATE.—A limited business moving: quantities, from 4¾d. per lb.; small parcels, up to 5¼d. per lb., ex store.

SULPHUR.—The tone is well maintained both for crude and refined sulphur. American crude is obtainable at about £5 17s. 6d., according to quantity, and Sicilian flowers stand at £12 7s. 6d., refined ground at £11 and roll at £9 15s., all c.i.f. to arrive.

COAL-TAR PRODUCTS, ETC.—A big decline in values of pitch is reported, and the market is very weak. Creosote oil is a shade easier. Other products are unchanged. ANILINE OIL continues steady on a quiet market at 8d. per lb., packages extra, carriage paid, for quantities. ANILINE SALT is quiet at 8d. per lb., packages extra, carriage paid, for quantities. BETANAPHTHOL is moving in fair quantities: quoted from 10d. per lb., carriage paid. CARBOLIC ACID crystals are unchanged, with the export price at 6½d. per lb., f.o.b., in drums with over-casks, in minimum five-ton lots; crude 60's, 2s. 2d. per gallon, naked at works. CREOSOTE OIL is easier: 6¼d. ex works; f.o.b., 7½d. per gallon, in bulk quantities. CRESYLIC ACID is steady but quiet: 97 to 99 per cent. pale American specification, 2s. 8d. gallon, f.o.b., drums extra; darker grades at cheaper prices. NAPHTHALENE is very slow: imported flakes and balls, £16 5s. per ton, in cases, ex wharf. METHYL ALCOHOL is meeting with a fair demand: small spot lots, £45 per ton, in drums, ex store; much cheaper prices for quantities to come forward. PYRIDINE remains nominal on a lifeless market: 5s. per gallon, f.o.b. TOLUOL is steady and in occasional demand: commercial, 1s. 7d. to 1s. 8d.; pure 1s. 10d. to 1s. 10½d. per gallon at works. XYLOL remains slow of sale: commercial, about 1s. 7d.; pure, about 1s. 9d. per gallon at works. PITCH.—The quotation to-day is down to 43s. to 44s. per ton f.o.b. East Coast, and the market is still falling.

Fixed Oils, etc.

PALM OILS show a sharp advance, and turpentine has recovered. Linseed oil is level on the week and closes steady. Most other products show little or no change, with business rather slow. ACID OILS.—Market at full rates: coconut/palm kernel, 38s.; groundnut, 31s.; soya, 28s. 6d. spot. CASTOR is unchanged: pharmaceutical, 49s.; first pressings, 44s.; second pressings, 41s. 9d. spot. COCONUT.—Market has been quiet and values are unchanged: deodorised, 46s. spot; Ceylon, 41s. c.i.f.; Cochin, 54s. c.i.f. COTTON is dull, but values are maintained: deodorised, 42s. 9d.; common edible, 40s. 9d.; soapmaking, 38s. 9d.; crude, 33s. spot. GROUNDNUT is dull: deodorised, 47s. spot; crude Oriental, 42s. c.i.f. PALM KERNEL.—Market is quiet and slightly easier: deodorised, 42s. 9d.; crude, 37s. spot. PALM.—Prices show a considerable advance, with the market closing firm: Lagos, 37s.; softs 35s. 6d. mediums, 35s. 6d.; hards, 35s. 6d.; bleached, 38s. spot. RAPE is unchanged: refined, 45s.; crude, 43s. spot. SOYA.—Market is dull and easier: deodorised, 38s.; crude, 35s. 6d. spot. LINSEED (RAW, NAKED).—Prices for all positions are about level on the week and the market is fairly steady: on spot, 28s. 9d.; September, 27s. 9d.; October-December, 27s. 9d.; January-April, 28s. 3d.; May-August, 28s. 7½d. Boiled oil, 32s. spot. Hull, on spot, 28. 3d.; September-December, 28s. 3d.; January-April, 28s. 4½d. TURPENTINE.—The market has reacted upward in sympathy with Savannah, but business has not been very active. Deliveries for last week were decidedly better at 2,197 barrels, making a total since January 1 of 72,804 barrels, against 87,454 barrels in the same period last year. Stocks were returned at 35,473 barrels, against 43,854 barrels last year. Adding to this the quantities afloat the London visible supply amounted to 40,523 barrels, compared with 48,037 barrels a year ago. American on the spot is now quoted at 41s. 3d., October-December shipment at 42s. 3d., and January-April shipment at 44s. per barrel. RESIN.—A sharp reduction in the American stocks, coupled with only moderate receipts, made for a stronger market, and c.i.f. terms were as follows: B/G 18s. 7½d. to 18s. 10½d., E to K 19s., M to N 19s. 3d. to 20s., W.G. 22s., and W.W. 23s. Terms ex wharf stand at 6d. per cwt. above these rates except for W.W., which is scarce and quoted at 25s. 9d. to 26s. WOOD.—Hankow is quoted on spot from 73s. 6d.; market quiet.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Benzol is active and firm, with other items steady and a fair volume of business being done.—BENZOL is active and very steady, with a possibility of an advance: crude 65's, 11½d.; standard motor, 1s. 4d. to 1s. 4½d.; pure, 1s. 9d. to 1s. 9½d. per gallon, ex works, in tank wagons. FUEL OIL is unchanged: 950 gravity, £5 10s.; 890 gravity, £4 2s. 6d. per ton, ex tank. PARAFFIN WAX AND SCALE.—Markets continue firm: wax, from 2⅞d. to 4¾d. per lb., according to melting point, in bags; scale quoted for shipment at about £25 per ton, c.i.f. U.K. port. PARAFFIN OILS are unchanged: American standard white, 10½d.; water-white, 11½d. per gallon, barrels free; Roumanian water-white kerosene, 4¾d. per gallon, ex tank. WHITE OILS.—Prices quoted are unaltered; market quiet: special No. 1, £23 15s.; No. 1, £23 2s. 6d.; No. 3 half-white, £20 10s.; No. 4 half-white, £19 10s. per ton, drums and barrels free, ex wharf. SOLVENT NAPHTHAS are in fair demand: 90 to 160, 1s. 1d. to 1s. 1½d.; heavy 90 to 190, 1s. per gallon, naked at works. PETROLEUM JELLIES.—Market steady, with fair business: white to snow-white, £39 to £48 10s.; amber and yellow, £18 10s. to £22; dark stiff green, £11 17s. 6d. per ton, barrels free, ex wharf. LUBRICATING OILS.—There is no change to report in either the shipment or spot markets, both positions continuing firm: on spot, pales, £9 15s. to £22; reds, £11 to £21 10s.; dark cylinders, £11 15s. to £28; filtered cylinders, £17 15s. to £28 per ton, less 2½ per cent., ex wharf; slightly less for tank lots. SOLUBLE OIL AND CUTTING COMPOUNDS, £20 to £28 per ton net. No. 1 RUSSIAN OIL is quoted on spot at £14 per ton, less 2½ per cent., barrels free, ex wharf.

Glycerin in Japan

It is estimated that the annual consumption of glycerin in Japan amounts to approximately 4,000 tons. The Godo Yushi K.K. of Tokyo, formerly a subsidiary of Suzuki & Co., is the largest producer of glycerin in Japan, their annual production amounting to approximately 1,000 tons. The firm of Nagasi Shokai, makers of Kao soap, and the firm of Marumiya, makers of Mitsuwa soap (both firms located in Tokyo), and the Velvet Soap Co. of Kobé are now producing glycerin as a by-product. It is estimated that each of these firms produces 250 tons of glycerin per year. There are a few small companies which produce limited quantities, bringing the total production in Japan to from 2,200 to 2,250 tons per year. Official government statistics show that the importation of glycerin into Japan in the last three years was as follows: 1925, 1,644 tons, valued at 1,704,752 yen; 1926, 1,430 tons, valued at 1,491,214 yen; 1927, 1,639 tons, valued at 1,865,092 yen. The following table shows the importations by countries of glycerin for 1926 and 1927:—

	1926		1927	
	piculs	yen	piculs	yen
Kwantung	300	20,000	520	30,613
Great Britain	24,438	1,403,000	24,370	1,550,240
France	652	33,000	1,722	96,880
Germany	—	—	2,481	145,305
United States	565	35,000	11	1,435
Switzerland	—	—	417	22,441
Netherlands	—	—	243	18,178
Total	25,955	1,491,000	29,764	1,865,092

Chilian Beeswax

CHILE as a source of supply of beeswax is shown in the following export figures:—

To	1922	1923	1924	1925	1926
	kilos.	kilos.	kilos.	kilos.	kilos.
United States ..	195,524	178,156	209,412	96,341	112,576
Great Britain ..	61,930	31,200	26,950	38,589	49,889
Other Countries ..	1,422	30	6,440	10,470	1,141
Total	258,876	209,386	242,802	145,400	163,606

Chile's exports of beeswax for the first quarter of 1928 were 36,000 lb., against 25,000 lb. for the first quarter of 1927.

Correspondence

Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

"The Automatic Pharmacy"

SIR,—I believe I was one of the first to visualise the sale of certain drugs in "slot" machines, to which reference is made in the *C. & D.*, September 8, p. 303. This would be about thirty years ago, and now I am rather surprised that no pharmacist has ventured into this field of activity. On Sunday I passed the shop of a *confrère*, centrally situated; it is always closed before 7 o'clock, and on Sundays service is shared between three or four others. On this occasion a notice was prominently displayed referring customers to "Mr. So-and-So," half a mile away. The proprietor of the shop in question is away from about 7 p.m. on Saturday to 9 a.m. on Monday. I am far from blaming anyone who can do this, and imagine there are many such; but there must be people in want of medicines between these hours. How are they to be served? I do not think many accept the invitation to go to "Mr. So-and-So." I think if I were in this man's place and could afford the cost I should be inclined to plan out an automatic machine to take six or eight different articles. For example: *Tablets*—aspirin, laxative and phenacetin; *Pastilles*—throat, cough; *Dressings*—cotton-wool, bandage, or a small first-aid line; all at sixpence each. There are many legitimate articles that I should not care to offer in this way. On the other hand, there may be seasonal lines that one might include, e.g., "anti-sting." All this may be thought *infra dig.* or unprofessional, but I do not see why it should be. After all, what does it come to? I close my shop and swing the machine into the front, as if to say: "I am closing until Monday morning (or the morning), but here are a few useful remedies. Put sixpence in the slot and help yourselves. Thank you!" If we do not do this, someone will.—Yours, etc.,

SENEX (10/9).

SIR,—Under the above heading an Australian states that sales of Epsom salts, etc., are a nuisance to the dispensing chemist as they take him away from his scripts and other sales. One by one, it seems, the different items of our business are becoming unprofitable nuisances. Chemists have been told over and over again that dispensing is too tedious a procedure and carries too much responsibility to make a real profit, besides which it takes a man away from his front counter when he might spend the time in more persuasive methods with his retail customers. And not long ago we were exhorted to make an endeavour to get back the sales of salts, sodium bicarbonate, and such things, and to give them prominence in our windows to show that we are still chemists and druggists. What, then, are we to become in the future if automatic pharmacy comes into fashion? With regard to the sales of Epsom salts and similar household requirements, I think we shall have to take a lesson from our competitors if we are to regain this trade—in short, the copied will have to become the copiers. I have by me a round carton, with a tin lever lid, containing ¼ lb. of sodium bicarbonate, and labelled "B.P. quality," which was purchased from a small general store for 1½d. From the average chemist this would cost from 2d. to 3d., wrapped in a paper packet, which becomes untidy, dirty, and leads to waste. Here is a direct object-lesson.—Faithfully yours,

BICARBONATE (10/9).

The Small Limited Company

SIR,—I have just read the comment of "Xrayser III" (*C. & D.*, August 25, p. 287) on my letter of August 18. I find he misconstrues a phrase of mine and makes me appear to refer to the work of the average pharmacy as "amateurish private trading," whereas actually I made no reference to the general work of a pharmacy, and the word "amateurish" was applied to private trading in general (a few outstanding instances to the contrary notwithstanding) and not to pharmacy in particular. It would appear that one advantage of the limited company is that it helps to solve the question of whether the pharmacist in trade is a tradesman or a professional man by turning him instead into a business man. The trading is done by the company which he controls as a director, and in the course of its trading the company employs in a professional capacity one or more pharmacists to attend to the technical side of the work; the obvious deduction is that the business of a chemist and druggist is a trade in which the full-time services of a professional man are essential.—Yours faithfully,

G. PATTRICK.

Consett.

Assistants' Difficulties

SIR,—"Fair Play's" letter (*C. & D.*, August 25, p. 267) states plainly a commonplace grievance. I can fully endorse its contents as to the non-stamping of N.H.I. cards, being myself a victim in this respect, and also a sufferer through questionable methods employed to avoid remitting commission. On one occasion an employer refused to pay me the full salary agreed upon; fortunately I had preserved his letter of engagement, on production of which the balance due to me was promptly, if not politely, disgorged. Yet one more incident may serve as a warning. I had reckoned as a really lucky and suitable engagement one with a limited company; it resulted in my dismissal with but one week's pay in lieu of notice (instead of the usual month's); and after incurring expense for legal proceedings to recover what was due to me, I was informed that the company was in liquidation and that all available assets had been absorbed in the payment of claims by preference shareholders. As a mere working manager (though qualified) I had to submit to the monetary loss, as further protest against what I believed to be illegal would probably have proved futile. It behoves all applicants for situations to obtain some reliable information as to the respectability of prospective employers.

Yours faithfully,

CAVE (28/8).

Legal Queries

Sale (21/8) recently sold his business for £1,600 and his premises for £1,200. No agreement was prepared, and for preparing the necessary forms of receipt and deducing the title and acting for him in connection with the sale of the premises, his solicitor has charged £21. Do we think that this charge is excessive? [We consider that the charge is moderate. For acting in connection with the sale of the premises alone, the solicitor was entitled to chargo a scale fee of nearly £23. This takes no account of the sale of the business, for which an additional charge might obviously have been made.]

Dubious (6/9) has purchased a house for £600, of which £450 was money advanced to him by a building society. The house is assessed to income tax at £18 15s. net, and he has received a demand note for £3 15s.; he asks if he is liable to pay this or whether the building society should pay as landlords. He has been told that owner-occupiers are exempt. [The particulars given are not complete. An owner-occupier is only exempt if his total income, including the annual value of the house, is under the minimum assessable income in his case. The net assessment here seems reasonable, and the tax is correctly calculated. As to the repayments to the society, the position is that in so far as payments made by "Dubious" are interest on the money he has borrowed, he is entitled to deduct income tax on this interest when paying it over to the society, so that the tax does not fall on him. In so far as the payment is a payment back of a portion of the capital sum of £450 borrowed, the tax falls on him. It is usual for building societies to have special arrangements with the revenue authorities for the adjustment of sums payable in respect of income tax on sums paid back by borrowers, and we would advise "Dubious" to write to the secretary of his society for particulars of this.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. F. M. (24/7).—MUSTARD OINTMENT.—The ung. sinapis of the National Formulary (N.F.V.) is prepared as follows :—

Volatile oil of mustard	2 grams
White wax	15 grams
Lard	83 grams

Melt the mixture of white wax and lard, then stir until it begins to congeal, whereupon the volatile oil of mustard is added and the whole thoroughly mixed.

Chymist (24/8).—PRICE OF OXYGEN.—The ordinary prices of oxygen are given in the *C. & D.* Retail Price List (p. 22), and these are worked out on a costing basis so as to allow adequate return for usual overhead charges. Where special night work is involved at least 10 per cent. should be added to normal charges. The charge for cylinders is per week.

G. D. R. (25/8).—STERILITY IN CATTLE.—Very little can be done successfully in sterility. Age, surroundings, food, and the animal's general condition must be considered, as well as the condition of the ovaries and uterus, in regard to which it is advisable to get skilled opinion. Dilute solutions of lactic acid may be injected every second day for a few days before œstrum is supposed to appear. Keep the bowels and kidneys in good order, and prevent, if possible, the animal becoming plethoric. Give plenty of fresh air and just a sufficiency of food, and keep her in clean and healthy surroundings, and in close and safe proximity to the bull. Allow a feed of oats daily for a fortnight before mating. The employment of aphrodisiacs is practically extinct, particularly for the larger animals, but a trial of yohimbine, nux vomica and phosphorus may be given. A change of bull is very often effective.

F. J. F. (31/8).—(1) The second Schedule of appliances allowed under the National Health Insurance scheme is printed in full on the *C. & D.* Insurance Card. (2) Some of the African ginger in the London market is reddish or reddish-brown in colour. (3) A formula for ginger-beer powder is as follows :—

Bruised ginger	1 oz.
Cream of tartar	1½ oz.
Oil of lemon	6 drops

Label : Pour one gallon of boiling water over the contents of the packet, allow to stand for half an hour, then add 1 lb. of sugar, one gallon of cold water, and two tablespoonfuls of brewer's barm. Alow to "work" for three or four hours, then strain through flannel and bottle. Yeast (½ oz. spread on floating toast) can be used in place of barm.

Quassia (31/8).—The particulars you send are not sufficient to enable us to state why the cordial does not keep, but possibly the quantities of the ingredients are not in correct proportion. The following recipes from Pharmaceutical Formulas will enable you to judge if this is so :—

I

Ginger Wine Essence

Tinct. of ginger (1 to 4)	ʒiv.
Tinct. of capsicum ...	ʒiij.
Tartaric acid	ʒvj.
Caramel	ʒij.
Water ... ... to	ʒiv.

Boil 4 lb. of loaf sugar in 125 oz. of water, strain, and when cold add the above quantity of essence. Shake well and bottle.

II

Ginger Cordial

Soluble essence of ginger	ʒij.
Tinct. of capsicum ...	ʒj.
Tinct. of clove ...	ʒj.
Tinct. of cinnamon	ʒij.
Caramel	ʒiss.
Syrup, B.P.	Ovss.
Water ... ... to	cj.

The deposit may be due to the caramel you use.

Westminster (3/9).—Your dog seems to be suffering from either advanced or chronic tuberculosis of the bowels or ulceration of the stomach and bowels, commonly known as consumption of the bowels. Treatment is usually of no avail. Give good nourishing food, such as dog biscuits, milk (boiled), raw lean meat and soups. If diarrhœa or dysentery continues, give tinct. catechu and port wine, and if there is pain in defæcating, give tinct. opii or any other soothing agent. Keep the animal as quiet and comfortable as possible, and clean out the bowel daily with an enema of potassium permanganate or sodium hyposulphite. You can continue the administering of the ointment around the anus and a little inserted inside as well, when it gives so much relief, and try to alleviate the suffering as much as you can, but from the symptoms given a recovery is doubtful. Pomeranians are very delicate animals, and are prone to many diseases proving fatal, which other breeds, Skye terriers, etc., would throw off without medicine or even assistance.

V. J. H. C. (4/9).—TOUCHPAPER.—The sample you send is hardly sufficient for a detailed examination, but a product on similar lines is prepared as follows :—Mix equal parts of potassium chlorate and antimony sulphide (previously finely powdered separately) and add French polish to make a thick cream. Spread thinly on paper and dry without the application of heat. An alternative method is to soak blotting paper in a 10 per cent. solution of potassium nitrate and allow to dry.

D. & C. (7/9).—Subscribers are in all cases required to furnish their names to the Editor when seeking information.

R. P. G. (25/88).—DEPILATORY.—The following is the formula for a depilatory suitable for packing in tubes :—

Gum tragacanth	gr. xx.
Water	ʒj.

Soak the gum in the water until it forms a homogenous jelly, then liquefy.

Sodium sulphide	ʒij.
Glycerin	ʒj.

—and incorporate with the above jelly.

It should be kept free from the air by packing in tubes and is best used as fresh as possible. A little terpineol may be added as a perfume. No chemical depilatory can be guaranteed not to cause irritation, or even dermatitis, owing to the idiosyncrasy of the user, but sulphides, which are extensively used in these preparations, seem least likely to cause untoward symptoms. It is not possible to suppress "the strong odour," though it may be to some extent counteracted by one of a more agreeable type.

E. G. C. (9/88).—HAND-CLEANER.—The following formulas make preparations which will clean the hands of motorists by just using it and wiping off with a towel :—

Liquid

Castor oil	25
Sol. caustic potash (1-1)	10
Indust. spirit	60
Petrol	10
Water	20

Neutralise with oleic acid.

Solid

Oleic acid	4 oz.
Turpentine substitute	1 oz.
Indust. spirit	2 oz.
Castor oil	1 oz.

Neutralise with solution of caustic potash (1-1). Add water 2 oz. to form a paste, incorporate 15 per cent. borax powder.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," September 14, 1878

Hyoscyamus near Liverpool

The "Flora of Liverpool" (a work published about twenty-five years ago) embraces an area of about eighteen miles round. The author, Dr. Dickenson, tells us that *Hyoseyamus niger* grows abundantly at Hoylake and Sarkgate. These two Cheshire watering-places form a triangle with Newferry, of about nine miles apart, and comprise the greater part of the "Cheshire Peninsula," in the Hundred of Wirral. Now, for the last ten years I [Mr. Henry Higginson, Birkenhead] have carefully searched there, and almost every intervening acre of ground, without finding a single henbane plant. I found my first and only specimen the other day, growing, of all the places in the world, out of the cinders which form the surface of the Chester and Birkenhead Railway here, and only 6 feet from the iron rails! It was a monstrous plant, measuring 4½ feet in every direction, with a stem as thick as my wrist.

THE CHEMIST AND DRUGGIST

COMMERCIAL COMPENDIUM

deals with the trade side of pharmacy

[Commenced *C. & D.*, July 5, 1924]

Pharmaceutical Society of Northern Ireland.—In July 1923 the Ministry of Home Affairs for Northern Ireland convened a conference of pharmacists and others interested in order to consider the legal position of the drug trade in that part of the United Kingdom. The Government was represented at this conference, held on July 25, by the Parliamentary Secretary to the Ministry of Home Affairs (who presided) and three other officials; the Queen's University of Belfast, the Ulster Medical Society, the Ulster Retail Drug Trade Association, the North Irish Pharmacists' Association, the Chemists' and Druggists' Society of Ireland and the Pharmaceutical Society of Ireland also sent representatives on the proposal of the Government. The chairman announced the Government's decision that a new pharmaceutical body must be set up in Northern Ireland, and asked for the co-operation of the trade in forming an organisation with which the Government could deal. A subcommittee appointed by the representative body of pharmacists, the Amalgamated Pharmacists' Committee of Northern Ireland, was received by the Minister of Home Affairs on October 19, and made an ineffectual appeal for the continued recognition of the Pharmaceutical Society of Ireland as the licensing authority for Northern Ireland. On January 25, 1924, the Minister presided over a conference at the Home Office, attended by representatives of the Chemists' and Druggists' Society of Ireland, the North Irish Pharmacists' Association, the Ulster Retail Drug Trade Association, the Pharmacists' Executive Committee, limited companies, wholesale drug houses, the Queen's University and the Belfast Municipal Technical Institute. It was reported to the Minister that the pharmaceutical chemists and the registered druggists had failed to agree in their proposals for a Bill; and the Ministry asked for the appointment of two pharmacists and two druggists on an advisory committee. The King's Speech at the opening of the Parliament of Northern Ireland on March 11 contained a reference to the coming Bill. The Bill was introduced into Parliament in November; its provisions were fully elucidated in two editorial articles in THE CHEMIST AND DRUGGIST, and it was discussed during the following winter by the trade organisations of Northern Ireland. In February 1925 the Minister of Home Affairs received deputations representing various interests affected. The second reading of the Bill commenced on May 7. During its passage through Parliament the Government inserted several of the amendments proposed by the Chemists' and Druggists' Society and the Pharmacists' Executive Committee. The Bill was given its second reading in the Senate on May 21, and through the Governor received the Royal Assent on June 9. (*See* Pharmacy and Poisons Act (Northern Ireland), 1925.) The *personnel* of the first Council of the new Society was announced in "The Belfast Gazette" of November 27, and the first meeting of the Council took place on December 2, when all the members were present with the exception of one who was ill. The Minister of Home Affairs (Sir Dawson Bates) and Mr. W. A. Magill, of the Home Office, were also present. Mr. Horatio Todd was the first president, Mr. Fred Storey vice-president, Mr. James Dundee treasurer, and Mr. David Kirkpatrick secretary. The first four committees appointed—Education, Law, General Purposes and Finance—consisted each of six pharmaceutical chemists, three druggists and one nominated member, with the president and vice-president as *ex-officio* members of all committees. It was arranged that the Council should meet on the third Friday in each month. The first meetings of the Council were held at the Ministry of Finance, but in February 1926 the Society took offices at 29 Wellington Place, and in the following July removed to the present headquarters, 55/56 Scottish Provident Buildings, Belfast. The first examinations were held at the Municipal College of Technology, commencing on June 28, 1926, when ninety-three candidates presented themselves for examination in the various parts. At its meeting in August the Council, which already possessed a seal on behalf of the Society, ordered a badge and chain of office to be worn by each president. The first annual meeting of the Society was held on October 4, when the president announced the result of the first Council election. Mr. Todd was re-elected to the presidential chair for a second year, and was followed in office by Mr. A. C. McBride.

Pharmacognosy.—Tschirch regards pharmacognosy as the science which is concerned with the investigation of materia medica of animal or vegetable origin, resulting in an accurate knowledge of these substances from chemical and other standpoints. The word has been traced back to its use by Seydler in 1815.

Pharmacological Laboratory.—A place where biological testing of drugs is carried out, especially that of those for which no definite chemical test is available. Under the Therapeutic Substances Act, 1925, certain organic substances for which no tests by chemical means are known are scheduled, and biological tests are accepted as standards. In pharmaceutical circles the term is usually applied (in the plural) to the laboratories set up at the headquarters of the Pharmaceutical Society in Bloomsbury Square for the biological testing of certain drugs, to which is now added the vitamin content of certain foodstuffs. The laboratories were officially opened in June 1926 by the Minister of Health.

Pharmacology.—Lauder Brunton ("A Text-Book of Pharmacology, Therapeutics and Materia Medica") defines pharmacology as "a knowledge of the mode of action of drugs upon the body generally, and upon its various parts." He adds: "What we actually mean is the reaction between the drug and the various parts of the body. . . . even in those cases where the drug itself is eliminated from the body apparently unaltered, it is probable that it has entered into various chemical combinations within the body while circulating in the blood or present in the tissues."

Pharmacopœias.—The oldest known work on medicine is the Ebers papyrus, to which the date *circa* 1550 B.C. is assigned; and the first attempt to produce a pharmacopœia is seen in the "Compositiones" of Scribonius Largus, written between the years 43 and 48 of our era. Dioscorides and Galen, who followed Scribonius Largus, left numerous prescriptions on record in their writings. "The Arabian Galen," briefly called Rhazes (841-926), left a formulary known as "Antidotarium." Mesuë the younger (d. 1015) and Avicenna (d. 1037) had a great influence in fixing standard types of formulas, and their work was manifest in the London Pharmacopœia of 1618 and some of its successors. With the separation of medicine from pharmacy resulting from the edict of the Emperor Frederick II (1224), the enforcement of official standards ensuring uniformity in the compounding of prescriptions became imperative, and the compilation of formularies to be followed in given states or other defined areas was only a question of time. The first official pharmacopœia compiled by a specially appointed commission appeared in Florence in 1498. The use of the word "pharmacopœia" dates from 1560, when a Latin translation of the "Riccetario Fiorentino" of J. Placotomium appeared in Antwerp. The two best-known pharmacopœias or dispensatories of the sixteenth century were those of Valerius Cordus, Nurnberg, and Adolphus Occo, Augsburg. The first London Pharmacopœia made an unfortunate beginning in May 1618, as its misprints were so numerous as to compel cancellation; it was reissued in the following December with corrections and additions. Subsequent editions were issued in 1621, 1632, 1639, 1650, 1677, 1721, 1746, 1788, 1809, 1815, 1824, 1836 and 1851. Some of these, however, differed so slightly from their immediate predecessors that they were little more than reprints. The editions of major importance (after that of 1618) were those of 1721, 1746, 1788 and 1809. Acts of Parliament passed in 1858 and 1862 directed that the General Medical Council should publish

The C.&D. Commercial Compendium

a book to replace the existing Pharmacopœias of London, Edinburgh and Dublin, and should call it "the British Pharmacopœia." The then current Pharmacopœias of Edinburgh and Dublin dated from 1841 and 1826 respectively, and the first editions were published in 1699 (Edinburgh) and 1807 (Dublin). The subsequent history of the British Pharmacopœia is given under that heading in the Compendium. In THE CHEMIST AND DRUGGIST, 1926, II, 51 and 216, the methods of preparation of pharmacopœias in twenty-three other countries were explained, and a comparison was made between these systems, which agree in their main features, and the unique system in force in this country. Of these twenty-three pharmacopœias, two are due to private initiative, those of the United States and Venezuela. In the other twenty-one countries the enforcement of the national pharmacopœia pertains to the state, and is ordered either by a royal decree (in four countries), by a government resolution (in six countries), or by a ministerial order (in eleven countries). Leaving out of consideration Serbia, the total number of effective members of the pharmacopœia commissions of twenty-two countries in 1926 aggregated 352, of which the medical profession claimed 129 (professors and medical practitioners), while teachers of pharmacy and government pharmacists numbered 79, and pharmacists in business totalled 88. In ten countries the co-operation of all those interested in this work was sought, and in some extensive use was made of the services of individual pharmacists and manufacturers; in four countries more or less copious abstracts of the contents of the proposed new pharmacopœia were published in order to invite criticisms and suggestions prior to the completion of the work. In no country outside Great Britain has the medical profession a monopoly of the production of the pharmacopœia; and in May 1928 a subcommittee of the Committee of Civil Research, in a report on the preparation of the British Pharmacopœia, made certain proposals for the modification of this anomalous system (*C. & D.*, 1928, I, 663). The report recommends that a selection committee consisting of nine persons, three of whom are to be nominated jointly by the Pharmaceutical Societies of Great Britain, Ireland and Northern Ireland, shall choose a pharmacopœia commission numbering "not more than ten or twelve members," the General Medical Council accepting responsibility for the work of the commission.

Pharmacopœias, Hospital. — Printed pharmacopœias for the use of hospital staffs first appeared, so far as is known, in the eighteenth century, in London (St. Bartholomew's Hospital), in 1730, and in Edinburgh (Royal Infirmary) in 1746. In 1764 a book purporting to contain the formulas of four London hospitals was published. Every important hospital and similar institution throughout the country now issues its own pharmacopœia at irregular intervals. Those of the London hospitals have for some years past been assembled in one volume by the late Peter Squire and his successors. The first edition is dated 1863; the present edition (Churchill, 1924) is the ninth.

Pharmacy Acts, Great Britain.—*See* Poisons and Pharmacy Acts.

Pharmacy Acts: Ireland.—Prior to 1875 there were in force in Ireland three Acts of Parliament which, though in the narrowest sense not Pharmacy Acts, may be conveniently referred to in this section of the Compendium for the sake of placing the Pharmacy Acts more strictly so called in a truer perspective. The three Acts referred to are the Act of 1791 "for . . regulating the profession of an Apothecary throughout the kingdom of Ireland," the Arsenic Act, 1851, and the Sale of Poisons (Ireland) Act, 1870. The last-named Act had appended to it a Poisons Schedule which, with additions made at the instance of the King and Queen's College of Physicians (now the Royal College of Physicians), is still in force. It differs from the corresponding British Schedule mainly by including in Part II all oxalates (added in 1897), phosphorus (including preparations containing it in a free state), and sulphuric ether, and in having an "omnibus" clause in Part II readiug: "every compound containing any of the poisons mentioned in this Schedule, when prepared or sold for the destruction of vermin." The circumstances attending the passing of the Pharmacy Act (Ireland), 1875, are recorded under the heading "Pharmaceutical Society of Ireland." This Act, consisting of thirty-six sections and a schedule, first defines (Sections 1-3) certain terms, and then (Sections 4-17) prescribes the constitution, functions and procedure of the Pharmaceutical Society of Ireland, a society brought into existence by the Act, and of its Council. Sections 18 and 19 (repealed in 1893) give registered chemists and druggists the right of election as associates, and lay down a date for the coming into effect of certain provisions; Section 20 deals with the appointment of a registrar, a treasurer and other officers; Section 21 has reference to the qualifying examination for pharmaceutical chemists, naming certain subjects in which candidates are to be examined, together with "such other subjects as may from time to time be prescribed by any regulations made in pursuance of this Act"; Sections 22-31 enumerate certain powers and duties of pharmaceutical chemists and of the Society's registrar; Section 32 provides for the carrying on of the business of a deceased pharmaceutical chemist; and the remaining Sections are concerned with such details as removal from the Register and the recovery of penalties. The Schedule to the Act gives the form in which the Register of Pharmaceutical Chemists is to be kept. The Pharmacy Act (Ireland), 1875, Amendment Act, 1890, repeals all provisions of the 1875 Act empowering the Pharmaceutical Society of Ireland to create a grade of chemists and druggists legally qualified to dispense medical prescriptions. This Act sets up (Sections 5-8) two new statutory grades, entitled respectively chemists and druggists and registered druggists, who are entitled to keep open shop for selling, retailing or mixing poisons, but not for compounding medical prescriptions. Chemists and druggists in business before the passing of the 1875 Act were entitled to be registered as such on payment of a fee, without examination; chemists and druggists who had gone into business after the passing of that Act had to pass an examination in order to be registered as druggists. The numbers in both these classes are now small. Apprentices were not to be admitted to the final Registered Druggist examination unless they could claim four years' experience, nor to the Licence examination without being able, in addition, to give evidence of a two years' assistantship to a Ph.C. or L.A.H. In addition to the features familiar in such Acts of Parliament, this Act provides (Section 17) that every shop must be personally conducted by its qualified proprietor or some other registered person (among which class apothecaries are included); and provision is made (Section 19) for assistants to pharmaceutical chemists to pass a separate examination enabling them to transact the business of a licentiate of the Society in his temporary absence. A Dublin High Court has heard three cases (in 1896, 1898 and 1899 respectively) in which apprentices sought admittance to the Licence examination. In the first it was decided that a limited company, all the members of which were not pharmaceutical chemists, was not a firm of pharmaceutical chemists within the meaning of the Society's regulations; in the second, the decision was that a limited company composed solely of pharmaceutical chemists came within the designation "a legally qualified firm"; in the third it was held that an apprentice to a licentiate apothecary was entitled to enter for the Licence examination. Sections 2, 5 and 7 of the Poisons and Pharmacy Act, 1908, apply to Ireland. Section 2 regulates the sale of agricultural and horticultural poisons by unqualified but licensed persons, and Section 5 prescribes the conditions of sale of certain poisonous substances of a corrosive type. The inclusion of "soluble salts of oxalic acid" in Section 5, however, does not override the provisions of the Acts of 1875 and 1890, which require the vendor to be qualified. Section 7 makes good an omission from the 1890 Act by providing for carrying on the business of a chemist and druggist or a registered druggist after his death. The Dangerous Drugs Act, 1920, applies to Ireland.

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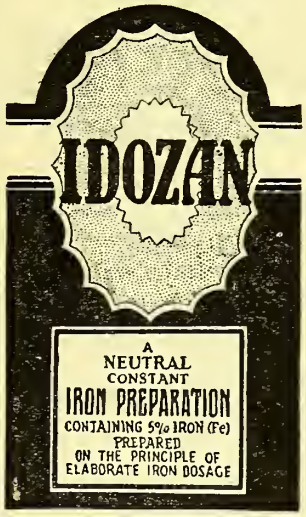
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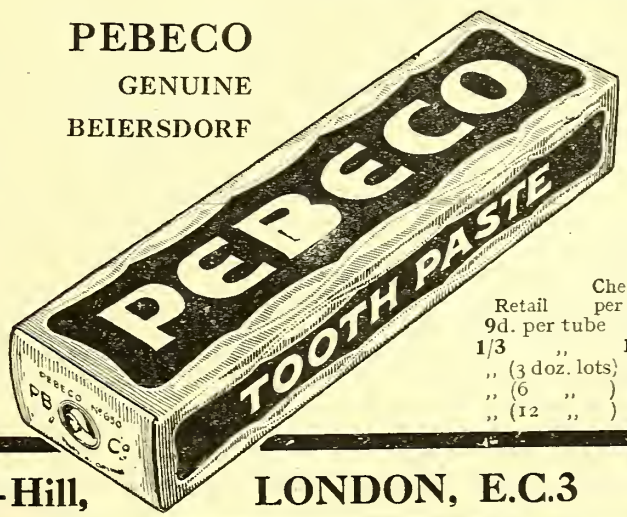


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„ Shampoo	„ Toilet Soap

Sole Manufacturers:

F.W. HAMPSHIRE & Co. (1927), Ltd., Riverside Works, Derby

"Multum in Parvo."

"VAPOFORM" Disinfectant

Regd.

For disinfection of Rooms Confined Spaces, &c. — for HOME and HOSPITAL — Has no injurious effects whatever on Furniture, Utensils, &c.

Small size, capable of disinfecting 1000 to 2000 cubic ft., 8/6 per doz.
Large size, capable of disinfecting 3000 to 6000 cubic ft. 13/- per doz.

Sole Proprietors—

HARKNESS, BEAUMONT & CO., LTD.
Wholesale Chemists, EDINBURGH.

ROBB'S

HERBALINE OINTMENT

Gratis samples for the Public

We are advising the Public to apply to you for free samples.

Send for a supply at once.

In addition we authorise you to promise to actual purchasers "Money back if not satisfied." Details of this on request.

RETAIL 1/3, 3/-, 5/- 10/-

PHILLIPS & ROBSON LTD.
81 TURNMILL STREET, CLERKENWELL, E.C.1

Genoxide
REG.
PEROXIDE
OF
HYDROGEN
B.P.



STABLE TO THE LAST DROP.

In 3 popular sizes, retailing at:

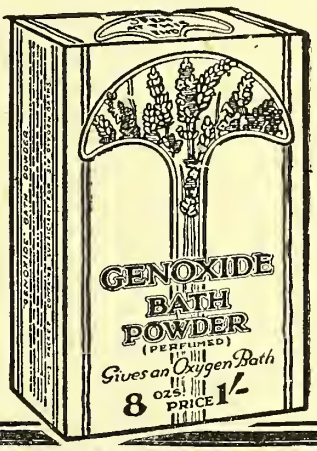
4 oz. .. 1/-
8 oz. .. 1/6
16 oz. .. 2/6

P.A.T.A.

GENEROUS MARGIN OF PROFIT—
MINIMUM
50%

GENOXIDE
BATH POWDER

A genuine Oxygen bath powder. Subtly perfumed, fully effective and packed in attractive cartons. "Genoxide" Bath Powder sells at popular prices which will increase the demand for medicated Bath Powders



RETAIL PRICES.
8 oz. 1/-
16 oz. 1/9

Terms to Trade:—
7/- per dozen 8 oz. packets, 12/- per dozen 16 oz. packets.

GENOXIDE LTD. LUTON

BLUE-LABELLED
'YADIL'

HAVE you changed your old stocks for the new blue-labelled bottles? If not, the Summer months offer you the last opportunity of doing so, and we invite you to write for particulars of our special offer.

We shall be happy to keep you supplied with counter wrappers, if you will kindly drop us a postcard as soon as you require further supplies.

YADIL PRODUCTS (1925) LIMITED
Sicilian House - LONDON, W.C.1

Himrod's
ASTHMA
CURE

Established 50 years

IT is a powder to be burned and the fumes inhaled without any bad after-effects. Recommended by physicians throughout the world.

"I have tried every remedy ever invented, and 'Himrod's Cure' is the only one in which I have absolute confidence."—EMILY FAITHFUL.

"This is an excellent remedy for Asthma."—Sir MORELL MACKENZIE (in his Clinical Lecture at the London Hospital and Medical College).

"The only relief I could get; if I had only known of it before."—LORD BEACONSFIELD, in his dying moments.

Himrod Manufacturing Company
SOLE PROPRIETORS,
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PHYLLOSAN Reqd.

(From the formula of Prof. E. Buergi, M.D. of Berne University)

National Advertising including TWO FULL PAGES

and other large space advertisements

EVERY DAY

during first weeks—in the

Daily Mail

commences TUESDAY NEXT September 18th

Phyllosan is prepared under the direction of E. BUERGI, M.D. (Professor of Medicine at Berne University, Switzerland). It is authenticated by the testimony of the world's leading scientists, physicians and medical and scientific journals. You can recommend it with the utmost confidence.

Dont miss your

PHYLLOSAN

(On the P.A.T.A. List) Reqd.

Initial Orders on Bonus Terms
yielding on outlay

OVER 55% PROFIT

will be accepted up to first post on

TUESDAY NEXT
September 18th

TERMS OF BONUS OFFER

Your Profit £2 : 12 : 3 on outlay of £4 : 13 : 9

FREE ADVERTISING MATERIAL.—With each bonus order we send one ten-colour attractive showcard, three smaller coloured showcards and window "slips" free. These showcards form a new "out-of-the-rut" window display. For a central 14 days' Window Display and an order for £4-13-9 worth of PHYLLOSAN you obtain a bonus, making your net profit £2-12-3, thus:

	Cost	*Sells for*
2 doz. 3/- size at 25/6 -	£2 11 0	£3 12 0
1 doz. 5/- size at 42/9 -	£2 2 9	£3 0 0
BONUS—		
Three 3/- size - -	FREE	£0 9 0
One 5/- size - -	FREE	£0 5 0
Total cost -	£4 13 9	Sells at £7 6 0
Profit - -	£2 12 3	on outlay of £4 13 9

These prices do not apply to the Irish Free State, I.O.M. and Channel Isles.

Share of it!

ORDER TO-DAY from your usual Wholesaler or direct from the Sole Distributors:

FASSETT & JOHNSON, LTD.
86 CLERKENWELL ROAD - - E.C.1

Issued by the Agents: Natural Chemicals Ltd., 28 St. John's Lane, E.C.1.

THE HONEY OF SUGAR

NULOMOLINE

PHARMACEUTICAL

A high-density syrup made from Cane Sugar - - - -
A well-balanced preparation of Invert Sugar and Sucrose - -
Non-Crystallizable - - - - - Non-Fermentable
The ideal base for all syrups where sugar and glycerine are used

Manufacturers: The Nulomoline Co. of New York
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CELERY PERLES
HOW ARE YOUR STOCKS?
Supplies from every Wholesaler.
The Fuller Laboratories, 1, Crutched Friars, London, E.C. *Telephone: Royal 8592.*

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PROMPT SHIPMENT
ALL SIZES
'Phone or Write:
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Petrolagar

YOU please the doctor and his patient who is your customer by always being in a position to supply 'Petrolagar' on demand. An imitation of this or any other worthy product will displease your customer, no matter how cheap the imitation is.

'Petrolagar' is the trade mark distinguishing the fine emulsion of mineral oil and agar-agar issued in four varieties, Plain, with Phenolphthalein, Alkaline and Unsweetened, manufactured only by DESHELL LABORATORIES LTD., BRAYDON ROAD, LONDON, N.16.

60 TABLETS For 2'6

LISTED P.A.T.A



NEW 'ASPRO' PACK THAT CAN INCREASE CHEMIST'S SALES 33⅓%

As a result of persistent enquiry from the trade and public who wish to purchase 'ASPRO' in larger quantities, provided some concession can be made, we have pleasure in announcing a new packing in the form of 60 tablets for 2/6. This packing is now on the market and is available to the trade through the usual wholesale channels. The prices of the new line are as follows:—

Price to Public - - 2/6 per packet of 60 tablets

Price to Chemists - 21/- per doz. [No bonus on this size]

PACKING—*This pack can be obtained in a neat Silent Salesman containing 1 doz. packets*

The 2/6 Size of 'ASPRO' means that your Customers get 10 TABLETS FREE. If you point this out to your Customers you render them a Service, and

DOUBLE YOUR TURNOVER

Chemists are realising the fact that by devoting their window display to advertised goods they are sharing the goodwill of about £10,000,000 worth of advertising yearly. 'ASPRO' is perhaps the best demonstration of this principle that England has seen. 'ASPRO' spends £250,000 a year in advertising and is increasing its appropriation as sales grow. The chemist who places the 'ASPRO' Window Display in his window gets the benefit of the advertising just the same as if his own name appeared in the advertisement.

'ASPRO' is the Chemist's Largest Seller. Send for a Window Display and get full benefit of the £250,000 Continuous Advertising Campaign.

'Aspro' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

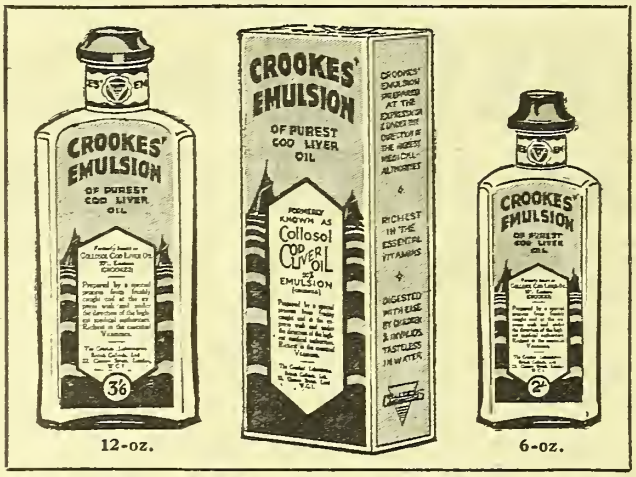
Agents:—GOLLIN & CO. PTY. LTD. ('Aspro' Dept.), Slough, Bucks.

Telephone: SLOUGH 608.

No proprietary right is claimed in the method of manufacture or the formula.

CROOKES' EMULSION

Formerly COLLOSOL COD LIVER OIL EMULSION 50%



12-oz. 6-oz.

ATTENTION OF THE TRADE

is drawn to the

CHANGE OF TITLE

of this product, which has become so rapidly established in medical opinion.

In those many instances where Pharmacists have the opportunity for personal recommendation, Crookes' Emulsion can be suggested with the assurance that its unique character and the support accorded to it by the highest medical authorities render it an ideal line and one which cannot fail to enhance their reputation

THE CROOKES' LABORATORIES

BRITISH COLLOIDS, LIMITED,

22 CHENIES STREET - LONDON, W.C.1

Telephone (3 lines): MUSEUM 3663, 3697, 5757. *Telegrams:* "COLOSSALLY, WESTCENT, LONDON."

Export Distributing Agents: AYRTON, SAUNDERS & CO., LTD., LIVERPOOL.

FREEMAN'S Chlorodyne

The ORIGINAL and BEST. Extensively used throughout the world since 1844.
Best for the Public—Best for YOU—*all-ways.*
DOES NOT REQUIRE CUSTOMER'S SIGNATURE.
Cable Address: "Chlorodyne, London."



'Vitality Pips'

A wonderfully efficient Tonic. Especially prescribed.
P.A.T.A. Retail Prices 1/3 and 3/-
YOUR PROFIT 33⅓% ON COST.
A Packet on the counter is a real money magnet.

BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE FINEST REMEDY FOR CATARRH & COLD IN THE HEAD.

Richard Dickeson & Co. *(Incorporated with Reynolds, Sons & Co., Ltd.)* 57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

STOCK AND SHOW NONN — Sales *must* follow!

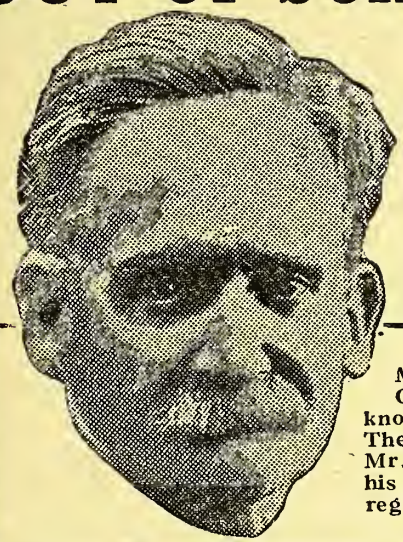
Nonn FOR NERVES

NONN for MEN (Red Cartons) } P.A.T.A. 3/- per carton
NONN for WOMEN (Blue Cartons) } (Wholesale) 27/- doz.

RESTORES SELF-CONFIDENCE

Proprietors of NONN LTD., 45 GORDON SQUARE, LONDON, W.C.

CHEMISTS MAKING MONEY OUT OF SCIENTIST'S INVENTION



An Electro-Therapeutic Instrument which secures the permanent goodwill of every customer and shows splendid profit.

Mr O. OVERBECK, F.R.S.A., F.P.C. (Lond.), etc., the Scientific Chemist, inventor of the new electro-therapeutic instrument known as Overbeck's Rejuvenator, and author of a "New Electronic Theory of Life," the remarkable book about electrical treatment. Mr. Overbeck is himself a living witness to the truth of his claims for his invention, having banished a trail of old-age infirmities, and regained the vigour of the prime, by treatment with his Rejuvenator.

Since public attention was first drawn by an editorial article in *The Daily Express* to the electro-therapeutic instrument known as Overbeck's Rejuvenator, the invention of Mr. O. Overbeck, the analytical chemist, approximately 10,000 have been sold in all parts of the world. Week by week the Rejuvenator is prominently advertised in the National Newspapers, the Religious Newspapers, the Weekly Press and Magazines, and the experience of the past twelve months has shown that there is an enormous field open for such a scientifically designed electro-therapeutic instrument. The prices at which Overbeck's Rejuvenator are sold, and the terms offered to the trade, ensure **large profits** for a small outlay of trouble, while the satisfaction and recommendation of customers is secured by the remarkably beneficial results which follow the use of this health-bringing instrument.

Some of the Ailments for which the Rejuvenator has been recommended:

Asthma	Indigestion
Bladder Weakness	Loss of Vigour
Blood Pressure	Lumbago
Bronchitis	Nervous Debility
Catarrh	Neuritis
Cramp	Neurasthenia
Constipation	Paraplegia
Deafness	Paralysis Agitans
Ear Affections	Psoriasis
Eyesight	Rheumatism
Gout	Rheumatoid Arthritis
Goitre	Sciatica
Headache	Toothache
Heart Affections	Voice Production
Hair Troubles	Wrinkles
Insomnia	

WHAT THE PRESS SAYS:

The Press, not only of the Empire, but of many foreign countries, has drawn attention to Mr. Overbeck's remarkable invention for prolonging life and banishing disease.

The following extracts are from British journals:—

"**Health and Efficiency**" (the leading health magazine) says:—"The Overbeck Rejuvenator is well so called because the extraordinary difference in his own and other people's appearances, palpable to everybody, has been so marked after using the process."

The "**Sunday Pictorial**" says:—"Doctors in Australia, India, Germany, France, Austria, Poland, Rumania, and America are experimenting with the machine and reporting, it is stated, remarkable cases of rejuvenation and relief of suffering."

The "**Daily News,**" describing a demonstration of the Rejuvenator given by Mr. Overbeck at the Savoy Hotel, London, says:—"Mr. W. J. Womersley, M.P. for Grimsby, who presided, said that he had known Mr. Overbeck for many years, and during the last two or three years his health and appearance had improved wonderfully."

MEDICAL ENDORSEMENTS:

It is contrary to medical etiquette to give the names of doctors who are using and recommending the Rejuvenator, but the following tributes are from prominent members of the profession:—

"Mr. Overbeck's system introduces a new note into Electro-Therapeutics, his instrument producing no sensation whatever."
——— M.B., Ch.B.

"This instrument, with its various fitments, is a perfectly safe means of applying medical electricity to the treatment of a variety of disorders, provided the very simple instructions are carried out."
——— M.B.
December 26, 1927.

"It has been beneficial in a case of muscular atrophy of the legs after severe illness, and personally I have used it on my bald head and am certainly gradually getting a good crop of hair, for which I am very thankful and pleased."
———M.D., M.B., C.M., F.R.C.S.

OVERBECK'S REJUVENATOR

has been prominently advertised during the past 12 months in

THE DAILY EXPRESS *DAILY SKETCH*
THE DAILY NEWS *DAILY MIRROR*
DAILY CHRONICLE *JOHN BULL*
MORNING POST *Etc., Etc.*

and a new and increased publicity campaign is now running.

OVERSEAS AGENTS—

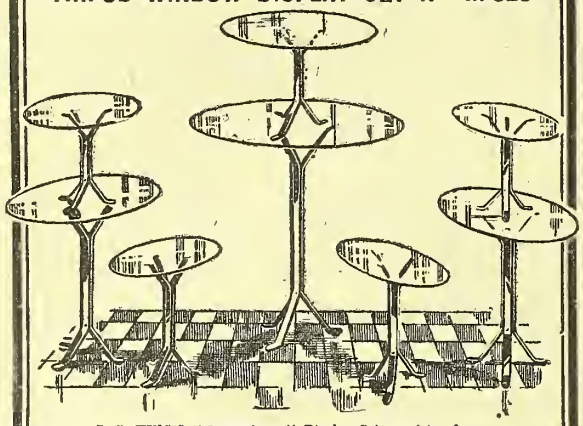
Union of South Africa, Rhodesia and S.W. Africa: Messrs. J. McNamara & Co., Ltd., 21, King George Street, Johannesburg, South Africa.
Norway, Sweden and Denmark: Rejuvenator-Agenturet, Sarpsborg, Norway.
Canada and United States of America: Overbeck Sales Agency, 23, Scott Street, Toronto, Canada.
Switzerland: Mr. Garcia Palacios, 2, Rue Henri, Muasard, Geneve, Switzerland.
France: Soci t · Internationale Verlmex, 76-78, Avenue des Champs, Elys es Arcade des Champs Elysees). Paris, 8E, France.
Dominion of New Zealand: Abel, Smeeton, Ltd., Customs Street, E., Anckland, N.Z.
South and Central America and Br. West Indies: Frederick N. Martinez, General Offices and Sample Rooms, Barbados, West Indies, and also at Kingston, Jamaica.

Sole Agents Required Abroad Where Not Already Represented.

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O. OVERBECK, F.R.S.A., Etc.
CHANTRY HOUSE, GRIMSBY.
'Phone: GRIMSBY 3980.

J. C. KING'S "QUEENSBURY" STEEL TRIPOD WINDOW DISPLAY SET No. M 628



J. C. KING'S "Queensbury" Display Set consists of:—

5 Steel Tripods 9" high. 2 Steel Tripods 12" high.
1 Steel Tripod 15" high.
All the above Tripods—Brown Bronze finish.

4 First Quality Glass Ovals ¼" thick, 5/8" Bevelled Edges, Size 12" × 9"
3 Ditto ditto ditto " 14" × 10"
1 Ditto ditto ditto " 18" × 12"

£2/10/0 THE SET.

Ref. No. M 629, an exactly similar set, but with Tripods in Copper, Oxidised finish, £2 10 0 the Set.

Send at once for full List of Up-to-date Fittings, No. 931, post free.

J. C. KING, LTD. 42-60 GOSWELL ROAD LONDON, E.C.1

CELLOPHANE

The ideal **transparent** wrapping **absolutely** harmless, air and grease proof, as used by all the leading Perfumers, Soap Manufacturers, etc., etc., for wrapping Soap, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Puffs, Soothers, Tooth Brushes and all Articles of Toilet.

Cellophane can be had in sheets, all sizes and colours; also in the shape of **Bags, Discs, Envelopes,** printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods **look better—keep better—sell better.**

Cellophane **protects, beautifies** and adds the quality touch.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY LTD.
7, 8 and 9 Bird Street, LONDON, W.1
Also 305-7 PRODUCE EXCHANGE, MANCHESTER.
35 MILLER STREET, GLASGOW.

IF YOU ARE INTERESTED IN CLEANER BOTTLES —you should get this New Book.



An entirely new work, based on 50 years' practical experience of bottle cleaning. Containing some invaluable information on modern Bottle cleaning practice, it should be in the hands of all interested in securing scientifically clean and sterilized bottles and jars at the lowest possible cost.

Send to-day—free to all executive members of the Trade.

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9 Park Lane, Stepney, HULL.

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Chemist and Druggist
SUPPLEMENT

is an infallible help when you want to buy or sell a business, secure an agency, an assistant or a situation, or

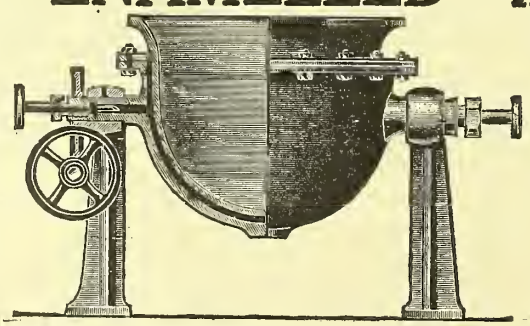
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Address all inquiries to—
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Suitable for all Temperatures and Pressures



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Suppliers before the war to the largest European Manufacturers of Chemical Products.

Write for Price List to Sole Representative:

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WRITE AT ONCE FOR RANGE OF SAMPLES AND PRICES.

FOOT BATH SALT SKILLETS

1/- Rheu Ped. 1/- Renal. 1/3 Kura.. .. .. Average cost when packed, 24/- gross
Morning Salt Cartons, costs to pack, 16/6 per gross .. .. Retail 4½d.
1/6 Vigor Tonic Outfit, 8 oz. size. A proved seller .. .. .. Costs to pack, under 7/- doz.
1/6 Bismuth, Magnesia & Soda Mint Elixir Outfit. A sensible *recipe*. Costs to pack, under 7/- doz.
The "Best Seller" "Indigestion Mixture" on the market.

Showcards and Window Bills supplied with above Specialities.

Influenza Mixture Cartons and Showcards .. .. Price 1/3 or 1/6

Supplied with Name and Address imprinted in Small or Large Quantities.

SPECIAL LINES.

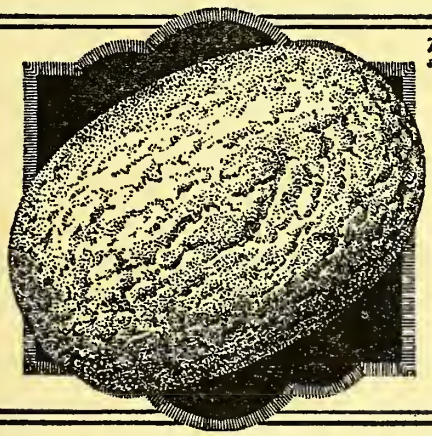
Slip Labels.. .. .. 2/6 per 1,000, 5,000 one kind at 2/3
715 White Demy, Glazed Surface .. .. 6 reams at 4/- .. 10 reams at 3/9
2416 Yellow Wove Demy .. .. .. 5 reams at 6/6 .. 10 reams at 6/-
1325 Toilet Rolls Thin M.G. Sulphite.. .. 46/- per gross .. 2 gross at 44/-
Sell at 6½d., 3 for 1/6.
467 Manilla Toilet Rolls .. .. 65/- per gross .. 2 gross at 63/-
Sell at 9d., 4/3 ½ dozen.
Crepe Sulphite Rolls .. .. 30/- gross
Sell at 4½d., 3 for 1/-.

SHOWCARDS FREE. *ALL MONTHLY ACCOUNTS SUBJECT TO 5%*

SERVICE, QUALITY AND PRICES RIGHT.

LARGE STOCK OF STOCK LABELS FOR ALL PREPARATIONS.

SUTTLEY & SILVERLOCK, Ltd. The Chemists' Printers **92 Blackfriars Rd., London, S.E.1**



Two thirds actual size

Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by

CARR'S *of* Carlisle

The Oldest House in the Trade

Season—1928

BRØDR. AARSÆTHER Manufacturers of FINEST PURE LOFOTEN Trade Mark AA COD LIVER OIL Est. 1877 AALESUND, NORWAY

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COD LIVER OIL

GUARANTEED GENUINE. FINEST PURE LOFOTEN.

Manufacturers:

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LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

SPECIALITY—Cattle and Poultry Feeding Oils.

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MALT & OIL

The No Trouble Malt Extract

THE MALT THAT CANNOT CRYSTALLISE.

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CAN YOU MEET the demands of the Medical Profession and the Public for

"ROBOVAL"

(Elixir Strontii Bromid. c Valerian Deodorat.)

An excellent **Calmative** and **Nerve Sedative,** free from any disagreeable taste or odour.

8 oz. BOTTLES, EACH **3/6**

(Subject to the usual trade discount.)

A BRITISH PRODUCT

Manufactured and extensively advertised by—

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76 NEW BOND STREET, LONDON, W.1

REMOVES GREASE, OIL, PAINT, TAR, &c., from CLOTHES, FABRICS, SHOES.

TEMPLETON'S
KLEN-GREZ
Retails at *1/-*
James Templeton & Co.
40 Battlefield Rd., Glasgow, S.2

SAVES SOAP
SAVES TIME
NON-Inflammable
PLEASANT ODOUR
FIXES DYES

"KISSINGA" PINE NEEDLE BATHS

The *original* Pine Needle Baths containing extract of Pine from the famous Pine Forests of Bavaria. WELL ADVERTISED. PRESCRIBED BY THE MEDICAL PROFESSION.

2/6 per box containing 6 capsules } Subject to Wholesale Discount
4/6 " " 12 " " } of 33⅓%

Supplies can be obtained from Wholesalers or from the Sole Agents:

ROBERT W. PHILLIPS, Ltd., Craven House, KINGSWAY, W.C.2

CHEMISTS SHOULD ALWAYS HAVE IN STOCK

TOWLE'S
PENNYROYAL & STEEL PILLS

Advertised all over the world.

ESTABLISHED 100 YEARS.

Sole Proprietors:

E. T. TOWLE & CO., LTD.
TOLL ST., NOTTINGHAM

The NEW GLAXO*

IN THE WHITE TIN

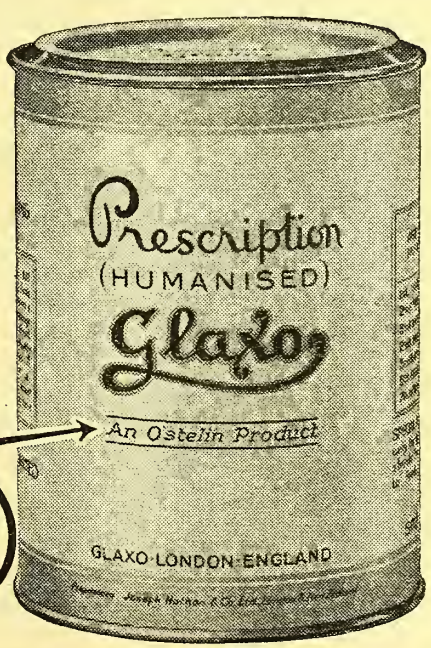
contains adequate quantities of Vitamin D (*Ostelin*) to ensure bone formation without the necessity for unduly large quantities of fat in the food.

STEENBOCK PROCESS E.P. 230197. The Guarantee of Vitamin D

*Prescription (Humanised) Glaxo, with added Vitamin D

NG1

One of a series of postcards that are being sent at regular intervals to 43,000 doctors. 18,000 nurses are also being communicated with regularly.



THE NEW GLAXO BEARS THE WORDS 'An Ostelin Product'

You should carry a few tins in stock. Put every new baby on to the New Glaxo. There are only two sizes (2/- and 4/-) of the New Glaxo: this will ultimately simplify your stock-keeping problems.

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"John Bull" VITAMIN MALT

We are now manufacturing a

Malt Extract of High Vitamin Potency

equal to Malt with 20% Cod Liver Oil

WITH AN ATTRACTIVE NATURAL FLAVOUR

and can supply Wholesale Drug Houses

IN BULK OR PACKED

The A, B & D VITAMIN STRENGTH OF THIS MALT IS REGULAR AND GUARANTEED.

We shall be pleased to send samples and certificate of Vitamin content by an independent chemist.

PAINE & CO., LTD.

"JOHN BULL" Malt Extract Works

ST. NEOTS - HUNTS

ORDER NOW FOR WINTER TRADE.

GOOD it's Mason's

MASON'S Ginger Wine Essence

QUICK SALES GOOD PROFIT

Liberal Window Show Allowance
Artistic Display Material

SEND FOR PRICES.

NEWBALL & MASON, LTD. NOTTINGHAM



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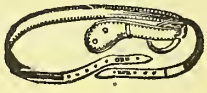
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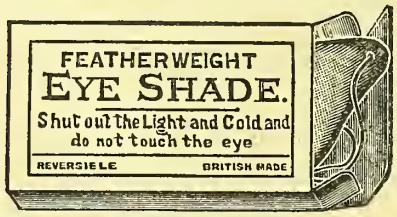
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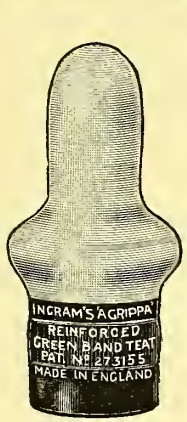
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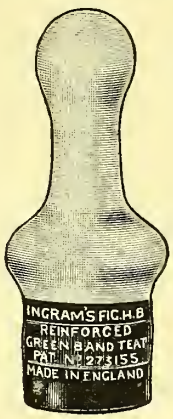
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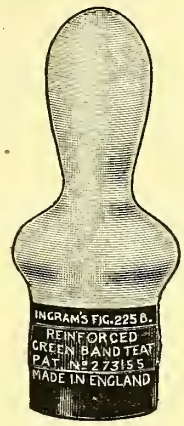
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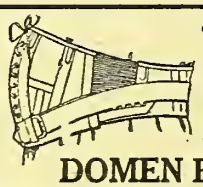


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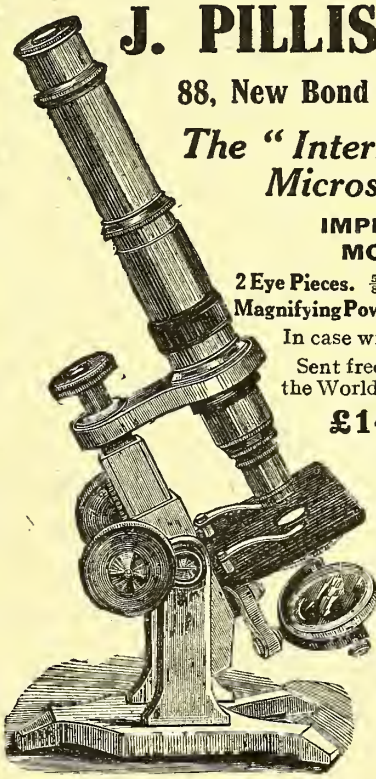
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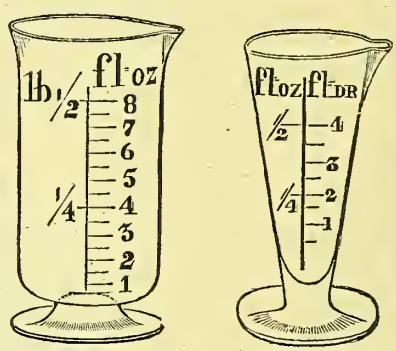
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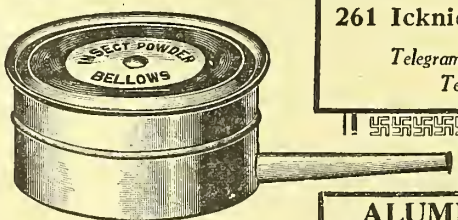
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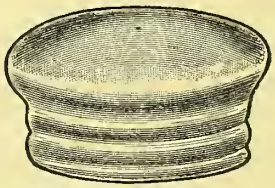
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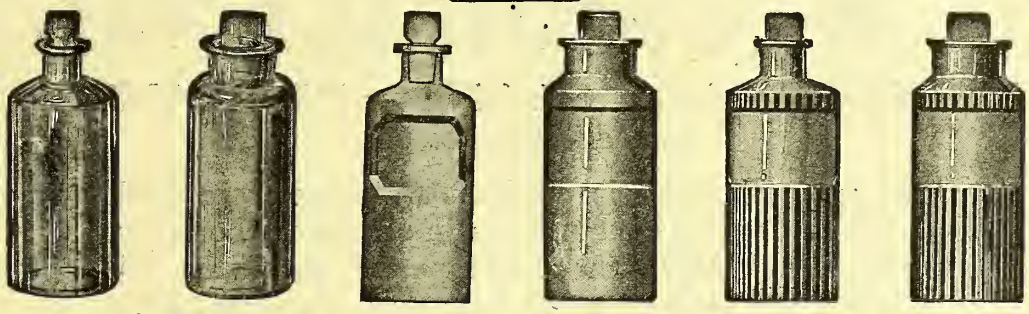
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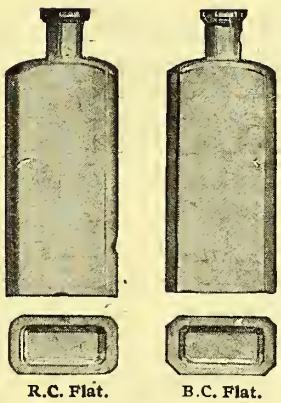
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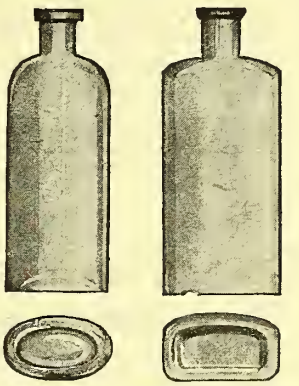
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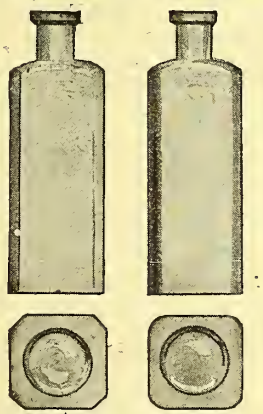
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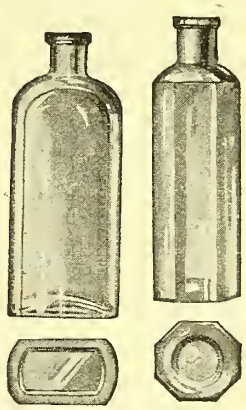


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42 CANNON ST. LONDON E.C.4

SEPTEMBER 15, 1928

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5.—LONDON, W.C.—Middle-class Retail and Dispensing Business; returns approach £50 weekly; good house in good state of repair; held on lease; double-fronted shop, well fitted and stocked; price to be arranged.

6.—CROYDON (Near).—General Retail and Dispensing Business, with scope for increase; returns, present rate, £33 weekly; double-fronted shop; good house, with bathroom; held on lease; price £1,200.

7.—HERTS.—General Retail Business, with Kodak Agency; returns last year, under the management of a lady, £750; scope for increase; single-fronted shop; rent £50; sublet £65; long lease; stock and fixtures estimated at about £400; price £550; ill-health cause of sale.

8.—BOURNEMOUTH (Near).—Good-class Family Retail and Dispensing Business; returns last year £1,900, with net profit £467; double-fronted shop, well-fitted and stocked; good house with private entrance; vendor owns the property and will grant a lease at £120 per annum; price for business, £1,000, or near offer.

9.—DERBYSHIRE.—General Retail Business, with Kodak Agency; established 50 years; returns average £40 weekly; double-fronted shop; good house, with garage and garden; rent £50; held on lease; price £1,400.

10.—SOUTH WALES.—General Retail Business with Photographic; no N.H.I.; returns, present rate, £3,900, rapidly increasing; stock and fixtures estimated at £1,450; rent £150; held on lease; price £750 for goodwill; stock and fixtures at valuation.

11.—WARWICKSHIRE.—Unopposed Village Business; returns average £22 weekly, with scope for increase; good house; large garden; vendor's own property; stock estimated to be worth £200; price for business £400.

12.—MIDLANDS.—General Retail and Dispensing Business, producing a net profit of £350 per annum; single-fronted lock-up pharmacy; rent £23; nearest opposition 1½ miles; price £50 for the lease and goodwill, plus value of stock and fixtures, or lump sum of £400.

13.—SOUTH OF ENGLAND.—General Retail and Dispensing Business, with N.H.I. and Optical connection; established many years; returns over £2,000 per annum; net profit over £800; double-fronted shop, fairly fitted and well-stocked; vendor owns property and will sell same or grant a lease; vendor would coach purchaser with Optical; further details on application.

14.—HOME COUNTY (Few Miles Out).—General Retail, with N.H.I. Dispensing; returns £2,000, under management; double-fronted shop; good position; convenient residence; new lease; offers invited.

Messrs. O. & Co. desire to emphasize the necessity of periodical Statement of Account by which means alone **Profit, the Value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make **Special Terms** for such service.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4

The Association of Manfg. Chemists, Ltd.

Business Agency, Transfer and Valuation Department

Head Offices—**Kimberley House, Holborn Viaduct, London E.C.1 (and at 2 Eixteth Street, Liverpool).**

PARKIN S. BOOTH, *Accountant and Valuer.* *'Phone: City 1261-2-3*

BUSINESSES FOR DISPOSAL

1.—BLACKPOOL.—Recently established Chemist's Business, on lease 15 years, at rental of £52 for first 3 years and £78 for remainder; returns £42 per week; stock approximately £400; price for quick sale, £1,880. Further particulars on application. (161)

2.—WARKS.—Old-established Business, Chemist and Optician; on lease with 3 years to run, with option of purchase; rent £50 p.a.; house attached let off £50 p.a. on monthly tenancy; returns £16-£17 p.w. Full particulars on application. (155)

3.—BRIGHTON.—Retail Dispensing Business; premises consist of single-fronted shop; 15 ft. frontage, with dispensary and large basement; held on lease 17 years at £52 p.a. inclusive; returns average £20 p.w.; can be increased. Full particulars on application. (147)

4.—MANCHESTER (District).—Old-established Dispensing Chomist Business in good class suburb on a yearly tenancy at £120 p.a.; let off £117; returns average £27 per week, all cash; excellent opportunity as quick sale is desired; good reasons. (172)

5.—DURHAM CO.—Chemist Business for immediate disposal; lease can be arranged at £30 p.a. rent; takings £17; Kodak and Ucal Agencies; good living accommodation. (174)

6.—STAFFS DISTRICT.—Excellent opportunity for qualified man. Drug and Photographic Store on lease 5 years to run at £40 p.a.; returns £10 per week; could be easily trebled; good living accommodation; full particulars on application. (169)

7.—HULL.—Dispensing and Family Chemist Business in busy thoroughfare (which will shortly become a main road owing to alterations); rent £26 on a yearly tenancy, which can be secured; returns £900 p.a.; lock-up shop; good prospects for a young qnalified man. Further particulars on application. (170)

8.—CHESHIRE.—Old-established mixed Family Dispensing business; yearly tenancy (no fear of disturbance); rental £40 per annum; well stocked, nicely fitted; Wine Licence, Kodak Agency and Optics; audited accounts available; quick sale desired. Further particulars on application.

9.—CHESHIRE.—Retail Family Dispensing Business; single-fronted shop; good living accommodation; held on lease, five years, at £130 per annum; established 20 years; returns average £32 per week. Full particulars on application. (152)

10.—LONDON, S.W.—Very old-established Family Retail and Dispensing Business, occupying prominent corner position in busy thoroughfare; lock-up shop with storage accommodation; held on advantageous lease at £100 per annum; returns approximately £2,300 per annum; can be increased under personal management; full particulars on application. (148)

11.—PLYMOUTH.—Very old-established Retail Dispensing Bnsiness; for immediate disposal owing to illness of owner; lease will be granted; part let off at £28 12s. p.a. to excellent tenant; returns £40 per week; double-fronted shop; optical testing room; three stock rooms, all on ground floor; recommended; further particulars on application. (162)

12.—LIVERPOOL.—For disposal, owing to ill-health, Chemist and Druggist's Business; lease can be obtained; rent £65 per annum; excellent living accommodation; returns average £17 per week; price for lease and goodwill £50; fixtures and fittings £175; stock approx. £300; fullest particulars on application. (167.)

13.—DURHAM CO.—Established many years; in present hands eight years; audited accounts showing average turnover for last six years £3,500 per annum, with average net profit of £600 per annum; freehold for sale, £1,800; let off £26 per annum; stock about £750, fixtures about £400; wine licence; property comprises two shops, with dwelling-house and room for storage; offer invited.

14.—SHEFFIELD.—Established on February 1 last; turnover £12 to £15 per week; rent £40 per annum; five years' lease from February 1; stock about £400, fixtures £300-350. Further particulars on application.

15.—SOUTHEND-ON-SEA.—For immediate Disposal, Chemist's Bnsiness, in busy centre; premises consist of lock-up shop, with Dispensing and storage room; rent £200 per annum, progressive; returns average £1,500, could be increased. Fullest particulars on application. (175)

16.—ESSEX (Health Resort).—Prescribing and Dispensing Business; established 24 years; no opposition; Kodak Agency; good opening for Optical and Dental; owner retiring. Further particulars on application.

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

BERDOE & FISH

CHEMISTS' VALUERS, AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—BOURNEMOUTH (Near).—Good-class Family Retail, in growing district; returns £1,900 at full prices; modern-fitted pharmacy; good stock; long lease; price for early sale £1,000; worth attention.

2.—EASTERN COUNTY.—Old-established country Retail, with Wines and Spirits, in best position of small market town; returns £3,500; scope for increase; books audited; good stock; price £1,650; freehold can be purchased.

3.—ESSEX COAST.—Light Family Retail and Dispensing; no side lines; same hands many years; retiring; present returns about £1,500; plenty of scope on modern lines; central position; good house and large garden; price, with valuable freehold, £2,000; recommended.

4.—KENT.—Unopposed Light Country Retail; pleasantly situated; returns, £1,450 to £1,500; net profit £350; large house and shop; well built; growing district; well fitted and stocked; price, including freehold, £1,600; recommended.

5.—SUFFOLK.—Old-established good-class Business, in busy town, has been neglected; present returns over £30 weekly; plenty of scope; commanding corner shop and good house; splendid opening for Optics; price £950, or small goodwill and valuation of stock and fixtures.

6.—SOMERSET.—Light Cash Retail, with Kodak Agency, in large town; returns £1,600; net profit averages £420; books kept; attractive lock-up shop; no near opposition; good stock; price £675, or near offer.

7.—THAMES VALLEY.—Good middle-class Business, with Kodak Agency, in splendid position; returns £40 per week, increasing; large house and pharmacy; fully stocked; long valuable lease; price £1,700; recommended.

8.—ESSEX.—Unopposed good-class Pharmacy in health resort; returns over £1,000; no N.H.I.; net profit £323; audited figures; good house, garage, and large garden (½ acre); owner retiring; price £700.

9.—LONDON (Western Suburb).—Good-class Retail, with Kodak Agency; main road position; growing district; returns over £1,700, increasing; modern double-fronted shop; fully stocked; price £1,350.

10.—LONDON, S.W.—Sound Light Cash Retail, in busy main road position; present returns £1,750; books audited; well fitted and stocked; price £1,200.

11.—LONDON, N. (Few Miles Out).—Middle-class Retail, with Photo; for quick sale through serious illness of owner; returns £750, scope for increase; main road position; low rent on lease; good stock; price £500, or near offer.

STOCKTAKING VALUATIONS.

We are now booking dates for September onwards and invite early application. Terms on application.

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If you have a **BUSINESS TO SELL, doing £40 or over with scope for increase,** I can quickly and privately find you a purchaser. Send particulars in full confidence.

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3 St. Paul's Close, WALSALL *Tel.: 771 & 1000 Walsall*

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(Fellow of the National Association of Auctioneers & Valuers),

CHEMISTS' VALUER & TRANSFER AGENT,

135 QUEEN ST., NEWTON HEATH, MANCHESTER.

Stocktaking and Transfer Valuations.—Have yours done thoroughly, quickly, and without fuss, by a recognised valuer who knows *his* business. Over 30 years' experience all branches. Telephone: FAILSWORTH 113.

PREMISES FOR SALE.

BURNT OAK, EDGWARE.—Commanding Freehold Shops, with Flats, facing main road in new and thickly populated district; suitable all trades; price £1,700; small deposit secures; balance as rent; shop front and decorations included; would let at £170 per annum. Apply Baker, Cooke & Standen, Surveyors, Edgware. (Tel. 0140.)

COMMODIOUS Shop in Fareham, Hants; splendid opportunity presents itself to build up a first-class business owing to its rapid development and increased population; no other chemist near. Rackham, Osborne Road, Southsea.

FREEHOLD Shops (two), nice little country town 55 miles out, Kent; attractive front; deep lobby; 7 rooms, bath, and cottage available; adjoining shop brings in £55; price £3,000, or nearest offer; must sell, going abroad; excellent opening for Chemists. William Houghton & Sons, Rexine House, 42 Newcate Street, E.C. 'Phone: City 6183.

BUSINESSES FOR DISPOSAL.

BIRMINGHAM (pleasant suburb).—Light Retail and Photographic; established over 20 years; easily run single-handed; corner position near very large works; lock-up shop and basement; rent 17s. 6d. clear; net profit £300 per annum; energetic management could soon improve; possession small modern house if required; price £525 all. 226/36, Office of this Paper.

BOURNEMOUTH.—Fine Chemist's Business, affording great scope to develop; splendidly fitted and equipped D.F. shop and Dispensary, together with excellent modern living accommodation and good garden; trade £1,900 p.a.; long lease; only £750 s.a.v. Coxill & Mitton, 101 Old Christchurch Road, Bournemouth.

CAIRO.—Proprietor of two of the best-known English Pharmacies in Cairo, wishing to retire from business, is willing to sell them at a very reasonable figure; they are known as first-class English Pharmacies, and are situated in the best centre of Cairo. For further information apply to "W.," c/o May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, London, E.C.1.

HOME COUNTY.—Exceptional offer, sound Light Cash Retail Business for disposal, within easy reach of London and Coast, producing a clear net profit of £1,000 a year before paying manager; audited accounts available; price required £2,750; only cash buyers need apply. "Prompt," 132/530, Office of this Paper.

LONDON, W.—Middle-class Business in busy shopping street; house sublet, leaving shop rental £42; first year's net profit £157, increasing steadily under management; excellent prospects of rapid increase under personal supervision; 20 years' lease; price £975, or close offer. Write, with references, to BM/VCLL, London, W.C.1.

MONMOUTHSHIRE (non-mining market town).—Farming, Family; very profitable; nearly £30 weekly (accountant's figures); Wine Licence; Photo can be added; low rent, rates; opposite main hotel; long-established Optical centre, offering great scope; £100, and stock, fixtures at valuation; bought bigger business; no triflers. 226/30, Office of this Paper.

NOTTS.—Established 6 years; turnover gradually increasing; last year £1,404; net profit £365; rent £65, rates £10; chartered accountant's figures; Kodak and Ucal Agencies; living accommodation; price £100, plus value of stock and fixtures, about £750 in all; quick cash sale desired. 229/22, Office of this Paper.

SOUTH COAST.—Good-class Family and Dispensing Business for sale; Kodak Agency; no opposition; average returns for last three years £1,788; freehold premises for sale or on a long lease; good opening for Optics. Write 228/24, Office of this Paper.

SOUTH HANTS.—Old-established Family and Prescribing Business in residential part; Kodak; good Photographic trade; panel; average takings £22 p.w.; net profit 33⅓ per cent.; premises, house and shop held on lease; fitted gas and electric; side entrance; well stocked; trade increasing and plenty of scope; bargain at £700. 228/19, Office of this Paper.

SOUTH-EAST COAST.—Old-established Business, conducted by late owner for over 30 years; General Retail, Dispensing, Optical; freehold corner shop with living accommodation; main road, opposite post office; returns approximate £1,200; capable considerable expansion; sale owing to death of proprietor. Further details on application. 133/648, Office of this Paper.

WOOLWICH.—Old-established Business for Sale; N.H.I. Prescribing, etc.; takings £700 year; gross profit 40 per cent., under very aged management; scope for increase; rent and rates £70 year; house vacant; lease granted 21 years; price for quick sale £200; stock at valuation, about £125. 228/380, Office of this Paper.

WORCESTERSHIRE.—For disposal, through ill-health, easily-worked Business, with N.H.I.; returns over £1,000; no Optics or Photography; house; lease; suitable for young energetic man; quite reasonable terms will be considered. 228/1, Office of this Paper.

CHANCE for beginner; £200, or close offer; recently established Chemist Business in rapidly growing locality; lock-up; rent 12s. with rates; returns £7 to £8 weekly; vendor lives some distance off, not able to give close attention; well-stocked and fitted; no Insurance work. W. J. Rugg, Chemist, Benfleet, Essex.

COUNTRY Business, Family and Agricultural, with large turnover at good profits; several good agencies; best position in Yorkshire market town; a rare opportunity for acquiring a sound business; long introduction given if desired; particulars to prospective buyers only. 229/2, Office of this Paper.

EXCEPTIONAL OPPORTUNITY.—Eastern County; profitable old-established good-class Retail; prominent position; returns about £1,500, increasing; plenty of scope; splendid opening for Optics; good house; best offer over £800 will be accepted for a quick sale owing to family ill-health. 229/17, Office of this Paper.

HERBAL and Drug Stores; main road; lease; big scope; nicely fitted; excellent position; can be easily increased; owner retiring; cheap to quick buyer; open to investigation. 227/36, Office of this Paper.

£250 DOWN, balance by arrangement, Dispensing and Photographic Business in S.W. London; takings £1,100, with scope for great improvement; working-class district; low rental; good lease; full particulars at interview. 228/12, Office of this Paper.

£500 BUYS good Country Business, with Kodak and Rexall Agencies; progressive Optical connection and excellent Photographic; Family Dispensing; Horticultural and Agricultural side lines; profitable own line proprietaries; low rent; stock, fixtures etc., in first-class condition. 229/38, Office of this Paper.

TENDERS INVITED.

NOTICE.

TENDERS are invited for the supply of Medicines and Pharmaceutical Preparations, Medical and Surgical Appliances, and Hospital and Bacteriological Requisites for the Travancore Medical and Sanitary Departments for three years, viz., 1929-1931. Tenderers may tender for the whole or any one or more sections of the schedule, a separate total being shown for each section.

Tenders, marked "Medical Supplies, Travancore," should be addressed to the Chief Secretary to Government, Trivandrum, Travancore State, South India, so as to reach Trivandrum not later than the 1st November, 1928. A schedule of requirements with conditions (3d. per copy) may be obtained on application to Dr. H. Campbell Perkins, 23 Glyn Mansions, West Kensington, London, W.14 (by letter only).

The Government of Travancore reserve the right to accept or reject any tender without assigning reasons.

T. P. RAMASUBBA AIYAR.
Ag. Chief Secretary to the Government of Travancore.

Huzur Cutcherry,
Trivandrum, 30th July, 1928.

SALES BY AUCTION.

373 HIGH STREET, CHELTENHAM.
(MESSRS. NATHANIEL SMITH & CO.)

Sale of High-class Valuable CHEMIST'S FITTINGS and FIXTURES, including complete MACHINERY and EQUIPMENT of a Mineral Water Factory.

YOUNG & GILLING

(having sold the property) are instructed to Sell by Public Auction, on the Premises, on TUESDAY, SEPTEMBER 25, 1928, commencing at 11.30 a.m., the valuable Pharmacy Fittings, including Mahogany Counters, Show Cases, handsome Mahogany Chemist's Cabinet with brass-plated drawers, Window Fittings, Mahogany Wall Cases, nests of Drawers, Mirrors, two Iron Safes by Milner & Co., etc. Equipment of a Soda Water Factory, including 2 h.p. Brooks Motor with Pulleys and Shafting, two Hayward Tyler Pumps, two Copper Mixing Cylinders, Gas Bell, Bottle Washing Machine, 50-gallon steam-jacketed Copper Pan, ½-ton Galvanised Sugar Bin, Slate Tanks, etc.

On view day previous and morning of Sale from 9 o'clock.

Further particulars and Catalogues from the Auctioneers' Offices, Promenade, Cheltenham. Telephone 2129.

BUSINESSES WANTED.

AN established Business required, Leeds or district; must bear investigation; living accommodation not essential. Replies treated with strict confidence. Particulars, price, etc., 226/33, Office of this Paper.

CHEMIST wishes to purchase a sound Business; books must be open to strictest investigation; replies treated strictly confidential; state in full particulars and net profits for last three years; bankers' references exchanged and other references (chemists'); genuine; principals only entertained. 225/7, Office of this Paper.

PARTNERSHIPS.

ABOUT £250 to acquire old-established Country; wants developing; Hants. 230/1, Office of this Paper.

HARVARD SIMS, the largest Kodak Dealer in Kent, wishes to meet a live business man, practical Chemist-Optician, to develop a Chemist Department in each branch; double-fronted shops, all in good positions; would let part premises in each case, or would entertain Partnership. 34 Marine Terrace, Margate.

YOUNG qualified Chemist and Optician seeks situation with established Pharmacist with a view to opening an Optical Department on partnership basis; London essential. Write "Optist," P.C.B. 52/23, Office of this Paper.

FINANCIAL.

ADVERTISER, going abroad, offers for Sale controlling interest in Chemist's Business in rapidly growing neighbourhood; purchase of shares—about £1,000—would include sole management of business. 133/645, Office of this Paper.

AGENCIES.

AGENTS wanted for new patent Razor Blade Stropper; retails at 1s. 9d.; exclusive rights given; wonderful opportunity for the right man; can be carried as a side line, but applicants must be well introduced and have good sales record. Write, stating full particulars of experience and territory covered, to Box 728, Sells Advertising Offices, Fleet Street, London, E.C.

MANUFACTURERS of high-class carded goods would like to hear from commission agents and dealers in sundries. The Kene Coagulating Cement Co., Carlisle Works, Werneth, Oldham.

PREMISES TO LET.

CATERHAM-ON-THE-HILL.—Shop, with living accommodation, to Let; £65 per annum, exclusive; excellent opening for Chemist. Particulars of Lewin, Estate Agent, 9 Cherry Orchard Road, Croydon.

DUNSTER.—Excellent lock-up Shop and Store Rooms to be Let, suitable for Agricultural Chemist's Business. Full details on application to Chanin & Thomas, Minehead.

SHOP to Let in good-sized residential suburb of London where there is little up-to-date opposition; there is no premium and rent is moderate; this is an excellent opportunity. Apply 226/34, Office of this Paper.

APPRENTICE WANTED.

APPRENTICESHIP.—Wanted, a smart youth for high-class Dispensing Business. H. R. Browne, 1 Cornfield Road, Eastbourne.

SITUATIONS OPEN.

RETAIL.

[HOME.]

ASCOT.—Unqualified Assistant for high-class Dispensing and Counter. Apply, stating salary, etc., T. G. Stewart, Ascot.

BARNSTAPLE.—Reliable Unqualified Assistant required for Family trade, with Agricultural and N.H.I. Dispensing; quick and accurate worker. Please state in first letter full particulars of experience, age, height, salary required, and send photo (returned), to Dyson, Chemist, Barnstaple.

BOURNEMOUTH (near).—Capable Assistant for good-class Retail and Dispensing; preferably married; to live on premises. Apply, with full particulars, to P. C. Cartledge, 10 Station Road, Parkstone.

BRIXTON, S.W.—Junior Assistant, to commence September 24; quick Dispenser, Window-dresser. State age, experience, references, and salary to P.C.B. 52/39, Office of this Paper.

COVENTRY.—Wanted, young lady Manageress for branch. Give usual particulars and salary required to W. H. Green, 28 Earl Street.

LONDON, N.—Qualified Chemist, between 30 and 40 years, wanted, October 8, for N.H.I. Dispensing and Stock. Apply, giving experience, salary required, Page's Drug Stores, Ltd., 203 Hertford Road, Lower Edmonton, N.

LONDON, N.—Junior Assistant wanted, October 1; Dispensing and Counter. Apply, by letter, stating age, salary required, to Page's Drug Stores, Ltd., 203 Hertford Road, Lower Edmonton.

LONDON, W.10.—A smart, experienced Assistant wanted; unqualified; age about 24 to 30. Apply, giving full particulars and salary required (outdoors), enclose photo if convenient, J. R. Faulkner & Co., 173 Ladbroke Grove.

LONDON.—Qualified man, also Junior; experienced; coming to work, not to learn; permanency; outdoors; good wages, commission and prospects early advance for smart, capable, active and useful men. Apply, giving particulars, age, height, experience, salary required; enclose photo. Cofman's, 129 Baker Street.

LONDON, E.C.—Unqualified Manager required for Retail and Photo business in working-class district; must have initiative and good Salesman; courteous to customers. Apply, stating experience, age, references, salary required, to 228/38, Office of this Paper.

LONDON.—Wanted, Qualified Assistant (Minor); Dispensing and Counter (lady or gentleman); middle-class trade; £3, dinner and tea; permanency. 230/15, Office of this Paper.

LONDON, N.—Junior Assistant required, male, outdoors, for middle-class business; Dispensing, Retail and Photography. Give full particulars of age, experience, height, etc., photo if possible (which will be returned), also salary required. Apply 229/3, Office of this Paper.

LONDON, N.W.1.—Qualified Assistant (lady), with good Dispensing and Counter experience and some idea of Window-dressing. Apply, stating age, experience and salary required, to 229/20, Office of this Paper.

MANCHESTER DISTRICT.—Qualified Assistant, aged about 25, required for Dispensing and Retail Chemist; salary £4 10s. weekly. Address, giving earliest date disengaged and stating age, height, and references, also enclosing photo (which will be returned), to 223/8, Office of this Paper.

MANCHESTER DISTRICT.—Junior Assistant with all-round experience. Give fullest particulars to H. Bellringer, 20 Great Clowes Street, Manchester.

MIDLANDS.—Unqualified male Assistant, accustomed busy Counter trade. Give usual particulars (enclosing photograph) in first letter. 226/7, Office of this Paper.

MIDLANDS.—Qualified Manager for Light Retail business, with house attached; exceptional opening for really smart and ambitious man. Give all particulars in first letter, stating salary required and when at liberty. 227/501, Office of this Paper.

NORTH WALES.—Unqualified Assistant; experienced; resident locally preferred. Apply, with all particulars and salary required, to Henry Mellor, Ltd., Chemists, Rhos-on-Sea, Colwyn Bay.

SOUTHALL (Middlesex).—Qualified Manager required for Family, Cash Retail, N.H.I. and Photo business; scope for energy and good prospects for right man; good house accommodation over premises. Apply, stating age, experience, references, salary, to 228/381, Office of this Paper.

SOUTH KENSINGTON.—Junior Assistant (male) wanted early in October. Apply by letter in the first instance, giving age, experience, and salary required. "A. D.," 13 Gledhow Terrace, London, S.W.5.

SOUTH STAFFORDSHIRE.—Qualified Manager wanted for Branch, with N.H.I. and Photographic; good living accommodation (three bedrooms, etc.); salary and commission. State age, height, married or single, salary required, including commission, when disengaged; give references and send photo if possible (returnable) to 229/9, Office of this Paper.

SOUTH WALES.—Qualified Manager for business in industrial area; house available. Give full particulars of experience and state salary required and when at liberty. 227/5, Office of this Paper.

STOCKPORT.—Assistant required for Dispensing and Photographic business; must be quick and accurate Dispenser and good Window-dresser; only applicants with good experience and references need apply. State full particulars and salary. 227/3, Office of this Paper.

SURREY.—Unqualified Assistant, aged about 26, required; quick and reliable Dispenser, with first-class Counter experience. Full particulars of salary (outdoors), experience and photo. Ashworth, Chemist, Weybridge.

A CAPABLE lady Dispenser required for a good-class Family business; must have Counter experience. J. T. de Peare, 14 Highbury Park, London, N.5.

A QUALIFIED lady Dispenser required by Medical Practitioner for large Private and Panel Practice. Apply Dr. Marshall Gilbertson, "Bancroft," Hitchin, Hertfordshire. Post vacant October 1.

A QUALIFIED, experienced Manager wanted; must be a first-class man; permanency, with good prospects. State age, height, salary required, etc. "G. S.," 117 High Street North, East Ham. 'Phone: Grangewood 0174.

ASSISTANT, young, unqualified, required immediately; must be good all-round man, trustworthy, and well recommended; permanency to right man. Evans, 110 Seven Sisters Road, N.7.

ASSISTANT, Junior, permanent, unqualified, required for September 24, for Counter, Dispensing, Photography. Apply, giving full particulars of experience, references, age and salary, to B. W. E. Beard, 196 Higham Hill Road, Walthamstow, London, E.17.

DISPENSER and Book-keeper required by Doctor. Apply by letter, stating age, qualifications, previous experience and salary required to "Advertiser," 573 Romford Road, Forest Gate, E.7.

JUNIOR required, about October 1, unqualified, outdoors, with good Dispensing experience essential. Please apply, stating age, height, experience, and salary required, to Davies, 76 High Street, Wimbledon, S.W.19.

JUNIOR Dispenser required; salary £120. Apply Secretary, Children's Hospital, Bristol.

JUNIOR at once, unqualified. Apply, stating experience, salary, and refcrences, to Battershill, Apothecaries Hall, Barnstaple.

JUNIOR or Improver wanted for good-class Dispensing and Retail business. W. Pickard, 80 North End Road, W.14.

JUNIOR Assistant (unqualified) required immediately. Give particulars of experience, age, salary required, and when at liberty. 227/500, Office of this Paper.

JUNIOR Assistant, unqualified, required at once; capable and reliable Dispenser, Counter and Photography, for Family and Dispensing business. Apply, with full particulars of experience, refcrences, age and salary required, "Manager," Holman, Ham & Co., Ltd., Tavistock, Devon.

JUNIOR Assistant, lady or gentleman; used to high-class business; outdoors; qualification not necessary. Apply, stating age, experience, references, salary required. Applications not answered in three days respectfully declined. Sharman, Northwood.

JUNIOR Assistant required at once for Dispensing and Counter; Photographic knowledge necessary. Apply to Ekins & Fisher, Market Place, St. Albans.

JUNIOR Assistant (male) for Dispensing Counter, early October; well trained and accurate. Full particulars of experience, age, salary required and pboto to T. O. Barlow, 2 Palmerston Road, Southsea.

JUNIOR Assistant, unqualified, about 23 years, outdoors, for good-class Family and Dispensing Business; good knowledge of Photography and window-dressing required. State full particulars and salary to Speechly & Milbanks, Chemists, Bishop Stortford.

JUNIOR Assistant required for Counter and N.H.I. Dispensing. State age, particulars of experience and salary required. Briggs, Chemists, Ltd., 126 Hce Street, Walthamstow.

LADY Pharmacist wanted shortly for good-class business in Bradford; good Saleswoman (not undor 25), with knowledge of Photo trade; salary £4. Write, giving details of experience and enclosing photo (if possible), to 133/636, Office of this Paper.

LOCUM wanted; must be trustworthy; September 22 to 30 inclusive; live out; age 30 to 35. Stevens, Chemist, Walton-on-Naze.

LOCUM, qualified, wanted immediately for two weeks. Apply personally, City Pharmacy, 27 Chancery Lane, W.C.2.

MANAGER, qualified, for high-class Family and Dispensing Business in Surrey; excellent house; attractive proposition to a man of character and experience and possessing business ability; interview essential. P. B. Phillips, 111 Plumstead High Street, S.E.18.

MANAGER, qualified, to open a Branch. State salary and give references. Salmon, Chemist, Stockton.

MR. R. WOOLBY BROOKE is requiring a qualified gentleman as Senior Assistant; applicants must have had exceptionally good experience in best style pharmacy; height not less than 5 ft. 9 in.; preference given to single man. State in writing all particulars and salary required (outdoors) to 19 Gloucester Road, London, S.W.7.

OCTOBER 1.—Junior, just finished apprenticeship would do; good Dispenser, Window-dresser and courteous Counterman; wage 50s. weekly; all particulars, pboto if possible (to be returned). Applications unanswered in five days respectfully declined. H. Reynolds, 39 Belsize Road, Worthing.

PARKES CHEMISTS LIMITED have a vacancy for a Qualified Manager. Apply by letter, with full particulars of experience, age, height and salary required, to the Secretary, 65 Harmood Street, London, N.W.1.

PARTNER-MANAGER required, October 1; middle-class district; good N.H.I.; with distinct possibilities for right man with £200 capital; Yorkshire. BM/HHGC.

QUALIFIED Assistant wanted for Retail Chemist in Midlands. Apply to 224/24, Office of this Paper, stating salary required and full details of previous experience.

QUALIFIED Manager for Branch in poor district of North Kensington; salary and commission; post now vacant. Give references, age, height, salary required, etc., to BM/VCLL, London, W.C.1.

QUALIFIED young lady to take charge of small Branch Pharmacy in Devon for one week-end, September. State age, height, salary asked and references. Hinton Lake & Son, Ltd., Exeter.

QUALIFIED lady or elderly gentleman required for N.H.I. Dispensing; capable of acting as superintendent for company. Apply W. J. Bishop, 56 Church Lane, Charlton, S.E.18.

QUALIFIED Assistant at once for branch; good Counterman and Window-dresser, and having good recent references. Please state full particulars. Lester, Chemist, Canterbury.

QUALIFIED Assistant required, with good-class Retail and Dispensing experience. Apply in first instance by letter, giving full particulars, age, experience and salary required, 228/21, Office of this Paper.

QUALIFIED Assistant for working-class business in E.C.1 area; easy hours; permanency. Apply 227/28, Office of this Paper.

QUALIFIED Assistant wanted; S.W.; able to manage; must have had good experience in all departments; Dispensing, Counter, Window-dressing, Photo trade, etc. State particulars of experience, reference, age, height, salary required, when at liberty, etc. 229/36, Office of this Paper.

STOCKTAKER (single) required immediately; applicants must have had experience in tbe taking of Retail Chemists' Stocks. Give particulars of past experience, and state age, salary required and when at liberty. 227/50, Office of this Paper.

TANNERS require Unqualified Assistant (male) for their Edmonton Branch on October 15. Letters, with particulars as to age, height, salary and references, etc., to Mr. Knight, c/o Tanners, High Cross Pharmacy, Tottenham, N.17.

UNQUALIFIED Assistant, under 30 years of age, wanted for good-class Family business, South Coast; must be smart Counterman and good appearance. Full particulars, salary, and when disengaged to Bennisons, Ltd., Chemists, 75 West Street, Brighton.

UNQUALIFIED male Assistant required immediately, good Dispensing and Counter experience essential, to work under qualified senior. State experience, age, references, and salary required in first letter. Ernest J. Hughes, The Pharmacy, Mclksham, Wilts.

WANTED, immediately, gentlemanly Assistant, about 28-30; active and willing; good all-round man, well up in Dispensing, Photographic, Display and Counter. Send full particulars in first letter, stating salary required. Chater, The Chemists of Watford.

WANTED, Junior (male); part time; commence at once. Full particulars and salary to C. Dickinson, 119 South End, Croydon.

WANTED, Chemist as Manager for shop in rapidly growing suburb (S.E.); good prospect. Write, with full particulars as to experience, wages, etc., to 133/644, Office of this Paper.

WANTED, unqualified Assistants; good wages and prospects. Apply personally Saturday morniug, September 15, Mortons Cash Chemists, 33 Johns Mews, Bedford Row.

WANTED, immediately, smart qualified man. Apply, stating fullest particulars and when disengaged, T. C. Cornwell, Chemist, Hanley.

WANTED immediately, Qualified Locum for two or three weeks, possibly longer; must be quick and energetic. Reply, stating salary required and enclose copy of references, "Staffordshire," 133/649, Office of this Paper.

WANTED, a smart Assistant, unqualified, at once to take charge general Retail Family Chemist department. Give full particulars, experience, age and salary required, and enclose photograph if possible. Lankester & Crook, Woolston, Southampton.

WELL-EDUCATED young man, with experience, to assist in management and extension of high-class Mineral Water bnsiness in Northern England; not necessarily qualified. State age, schooling experience, and salary (in confidence) to 133/640, Office of this Paper.

WINDOW-DRESSING and General Display.—Young lady required as Assistant Window-dresser and able to assist on Counters; modern store near Londou; opportunity for lady with good taste and original ideas. State age, experience, and salary required to 227/4, Office of this Paper.

YOUNG lady or gentleman (qualified preferred) to assist proprietor; Dispensing and Counter; no Sunday dnty; half-holiday weekly; easy hours; capable of taking charge; live out. State salary required. Apply "M.P.S.," 230/11, Office of this Paper.

WHOLESALE.

SOUTH COAST.—Young energetic Salesman for qnick-selling Proprietaries; experience essential; part expenses and commission. Full particulars to Manager, Royal Court Manufacturing Co., 4 Chapel Court, S.E.1.

CHEMIST required for Essential Oil and Essence Works near London; candidates must be reliable Analysts; preference will be given to those who have had experience in the Manufacture of Fine Chemicals used in the essence trade. Apply, stating age, if married or single, experience, and salary expected, to 133/634, Office of this Paper.

FRENCH Manufacturer of Colonring Materials for soap, perfume, and confectionery wants Traveller; only those tboroughly conversant with an established trade need apply to 230/4, Office of this Paper.

HIGHLY experienced Essence and Essential Oil Traveller required by leading London firm; good connection, references, and own car absolutely essential; every enconragement, good salary and commission given to the right man; a life-long job if suitable; applicants not possessed of above qualifications need not apply. Box L.42, Gordon & Gotch, Ltd., 75 Farringdon Street, London, E.C.4.

IMPORTANT firm Essential Oil and Cbemical Merchants require competent Shortband-Typist immediately. Apply, particulars, experience, and salary required, 133/641, Office of this Paper.

PHARMACIST required for Medical and Trade representation in the Eastern Counties; under 35; previous experience not absolutely essential, but should be well grounded in physiology and therapeutics; able to drive light car. Give full details and salary required in first letter. 133/637, Office of this Paper.

REPRESENTATIVE required to cover London and South Coast territory for Soaps and Perfumery; applicants must have connection amongst Wholesalers; salary, expenses, and commission basis. Apply, by letter, giving age and past experience, Cussons, 13 Southampton Street, Holborn, W.C.1.

REPRESENTATIVE, calling on Hospitals, to sell a fully patented device which prevents ladders from slipping on polished floors; on good commission basis only; no expenses. H. Marshall, 205 Burlington Street, Liverpool.

REPRESENTATIVE required, with first-class connection among Hospitals, Doctors and Nursing Homes, in London and outstanding districts; must have wide knowledge of Surgical Instruments, otherwise do not apply; wages, commission and exponses. E. M. Walden, Ltd., 136 Borough High Street, S.E.

REPRESENTATIVE required, with first-class connection among Hospitals, Doctors and Nursing Homes, for South Coast; must have wide knowledge of Surgical Instruments and Appliances, otherwise do not apply; wages, commission and expenses. E. M. Walden, Ltd., 136 Borough High Street, S.E.1.

REPRESENTATIVES required, who are already calling on Wholesale and Retail Chemists, to carry as a side line a Solution for sealing bottles; only two small samples carried; commission 5%. Apply 221/3, Office of this Paper.

REPRESENTATIVES required to handle quick-selling Speciality; 2d. line. 133/642, Office of this Paper.

REQUIRED, for Northern Counties, experienced Representative for old-established London house of Wholesale Druggists and Manufacturing Chemists, to call on Chemists, Doctors, Hospitals, etc.; must have excellent credentials and established connection. Apply, giving full details of experience, area covered, etc., to "Northcount," c/o Goddard, Watts, Ltd., 3 Broadway, E.C.4.

REQUIRED, for Western Counties, experienced Representative for well-known house of Wholesale Druggists and Manufacturing Chemists, to call on Chemists, Doctors, Hospitals, etc.; one with first-class credentials and established connection. Apply, with full particulars of experience, area covered, etc., to "Westcount," c/o Goddard Watts, Ltd., 3, Broadway, E.C.4.

REQUIRED, for Scotland, experienced Representative for well-known London house of Wholesale Druggists and Manufacturing Chemists, to call on Chemists, Doctors, Hospitals, etc.; one with first-class credentials and established connection. Apply, with full particulars of experience, area covered, etc., to "Scot," c/o Goddard Watts, Ltd., 3 Broadway, E.C.4.

REQUIRED immediately in the office of a Manufacturing Perfumery House a well-educated youth about 17 as Junior Clerk, with view to position on technical side later; some Wholesale experience a recommendation. Apply 133/646, Office of this Paper.

SALESMAN required to develop sales of a first-class Dye with Chemists, Ironmongers, and other avenues which present themselves; only proved salesmen need apply, stating age, experience, and salary required. Box "H. F. C.," c/o C. Mitchell & Co., 1 Snow Hill, E.C.1.

SALESMEN wanted with good connection among Chemists (all parts) to sell well-known side-line on commission; light, easy samples; ready sales; sure good income to men who are salesmen. State present lines, connection, etc. 228/28, Office of this Paper.

SALESMEN required by old-established Toilet Brush Manufacturers for London area; energetic and reliable men required, with sound established connection amongst Chemists. Write, giving full particulars of experience had, to Z.Y.532, care Deacon's Advertising Offices, Fenchurch Avenue, E.C.3.

SALESMEN, with live connection with Chemists and Hairdressers outside the London districts, required to sell a very fine line of English Toilet Brushes on commission. Write, stating territory covered, lines at present carried, etc., to Z.K.531, care of Deacon's Advertising Agency, Fenchurch Avenue, E.C.3.

WANTED, immediately, for Glamorgan, Salesman for direct selling of Pharmaceutical Goods and Veterinary lines; able to drive car; salary, expenses and commission. 133/638, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN).

BOULOGNE-SUR-MER.—Assistant wanted during October; knowledge of French essential. Apply, by letter only, "Pharmacie Anglaise," c/o W. E. Cane, 10 Gloucester Road, South Kensington, S.W.7.

PARIS.—Junior Assistant as Dispenser; Continental experience preferred. Full particulars, age, references, experience, salary, etc., to Roberts & Co., 5 Rue de la Paix, Paris.

RIVIERA.—Qualified Junior (male), quick and accurate Dispenser, for January, February and March, 1929. Apply, by letter, giving full particulars and photo, to Edward Wright, Hunstanton, Norfolk.

SITUATIONS WANTED.

RETAIL. [HOME.]

A.A.A.—EXPERIENCED Assistant, abstainer, middle-aged, desires post, right-hand man, where employer's interest studied would meet apprcciation; moderate salary; offers invited; town or country; unregistered. "Active," 35 Lyndhurst Drive, Leyton, E.10.

A.A.—DISPENSER (Hall), 10 years' experience, disengaged, desires post with Doctor, Chemist or Institution, in or near Birmingham. Walkey, 14 Heaton Street, Birmingham.

A.—QUALIFIED gentleman, 25, desires permanency; Senior or Manager; Midlands preferred, not essential. Denby, 21 Lansdown, Stroud, Glos.

A CHEMIST and qualified J.C.Q.O. Optician; shortly disengaged; experienced all branches. "Chemist," 7 Chaucer Road, Acton, W.3.

A THOROUGHLY experienced right-hand man; unqualified; abstainer; middle-aged; exceptional references; London district. "Alpha," 41 Selwyn Avenue, Richmond.

ABSOLUTELY reliable, thoroughly experienced Dispenser, keen Salesman; Photography; capable of taking charge if necessary; just disengaged; age 40; height 5 ft. 8½ in.; references good. "Dispenser," 29 Woodstock Road, London, W.12.

APPRENTICE (4 years) desires situation; Birmingham and district preferred, but not essential; knowledge of Photography, Dispensing and Window-dressing; free October 14. D. Hull, 36 Corporation Street East, Walsall.

AS Manager or Senior Assistant; 39; good experience of Dispensing and Photographic; N. or N.W. London preferred. "Qualified," 217/32, Office of this Paper.

AS Dispenser or Assistant; unqualified; male; 26; London (City) or Hospital; 8 years' practical experience; free one month from engagement. "D.," c/o 25 Birchanger Road, S.E.23.

AS experienced in good-class live business or Drug Store; manage, Senior, relief; good all-round general experience; keen buyer and business builder; effective Prescriber. "G.," 130 Scott Ellis Gardens, N.W.8.

ASSISTANT, unqualified, 22, tall, desires change; 5 years' high-class experience. Jewry, 41 Derwentwater Road, W.3.

ASSISTANT; capable and energetic; mid-aged; good all-round experience, Dispensing, Counter, Prescribing; single; can manage; unqualified; permanency. 226/9, Office of this Paper.

AMBITIOUS young lady, qualified, age 24, desires high-class West-End experience. "Pharmacist," 14 Gladstone Street, Hull.

ASSISTANT, 21, tall, energetic, requires situation, Brighton or district; good experience, Dispensing, Photographic, Window-dressing, Counter and Veterinary. H. Margetson, 4 Roseland Terrace, Cheltenham Spa.

ASSISTANT; unqualified; age 33; height 5 ft. 10 in.; good experience in Photography, Counter, Dispensing; willing. C. C. Johnstone, Beach House, Brixham, Devon.

ASSISTANT or Locum; Dispensing, Counter, Photography; active; experienced; unqualified; excellent references. "K.," 62 Bleuheim Road, East Ham, E.6.

ASSISTANT, 24, unqualified, smart, energetic, seeks position in South London; Optics, Photographic and Dispensing; disengaged early October. 227/34, Office of this Paper.

ASSISTANT; unqualified; good experiences all branches; permanent; disengaged October 1. Mitchell, 10 Orb Street, S.E.17.

ASSISTANT, Locum or permanency; 16 years' varied experience; up-to-date Window-dresser, good Salesman and Dispenser; excellent references; disengaged. "Statim," 17 Park Avenue, Aylestone Park, Leicester.

ASSISTANT, Branch Manager, or temporary; 30 years' experience; active; trustworthy; good references; disengaged. "Pharmacy," 20 Meadow Street, Manchester, M.S.

ASSISTANT, unqualified, 25, good all-round experience, desires berth; Locum or permanent. Browning, "The Bungalow," Ridgetop, Wollaston, Stourbridge.

ASSISTANT; London district; unqualified; capable Dispenser, Counter and Photographic; long references. G. Fall, 105 Tottenham Lane, Hornsey, N.8.

ASSISTANT; unqualified; 29; married; 9 years' good all-round experience; desires interview re engagement; S.W. or near. "Monad," 26 Craven Gardens, Wimbledon.

ASSISTANT; 34; unqualified; at liberty September 24 or later; 14 years' experience, Dispensing, Windows, Counter, Photography; thoroughly trustworthy and competent; good references; Lancs or Yorks preferred, but not essential; offers invited. "Assistant," 22 Herbert Street, Newton Heath, Manchester.

ASSISTANT (Part I); unqualified; 25; single; abstainer; good experience Counter and Dispensing; excellent references; London preferred. 228/2, Office of this Paper.

ASSISTANT, 22, Counter and Photographic, wishes to obtain Dispensing experience; accept low salary to commence with; North preferred. 228/5, Office of this Paper.

ASSISTANT, age 21, desires change; good Dispenser, Window-dressing, Counter, Photography. 228/34, Office of this Paper.

ASSISTANT; 24; unqualified; good experience, Private, and N.H.I. Dispensing and Counter; Midlands preferred. 228/36, Office of this Paper.

BIRMINGHAM DISTRICT.—Part I Student requires evening work; good Dispenser, first-class Counterman; willing dispense for doctor. 225/10, Office of this Paper.

BOOK-KEEPER-DISPENSER (lady) desires position with Chemist or Doctor; Retail experience; highest references. 17 Ashmount Road, Highgate, N.19.

BOURNEMOUTH OR DISTRICT.—Qualified man seeks a light or part-time berth. "S.," 59 Lytchett Minster, Poole.

CLERICAL (Book-keeping, etc.); any kind; terms moderate. Write "X. Y. Z.," 226/12, Office of this Paper.

DISENGAGED; Locum; September 17; good-class experience; active; references; middle-aged; qualified. "Chemicus," 34 Kingscote Road, Addiscombe, Croydon.

ENTERPRISING, capable gentleman, 24, highly recommended, first-class City, West End and provincial experience, Ph.C., F.S.M.C., desires position of responsibility in Retail, or would entertain Partnership with view to succession, in North of England. Apply 226/28, Office of this Paper.

EXCELLENT Dispenser, Counterman requires part-time situation, October; London, S.W., preferred. Riley, 31. Rose Street, York.

EXPERIENCED Assistant, well recommended, desires single or senior position, or manage under principal; all branches of the business; Surgical and Appliance Fitting; exceptionally good Prescriber; Counterman; disengaged; would come emergency whilst negotiating permanency. "N.," 21 Albion Place, Maidstone.

FLUENT French speaker (lady) desires position in London; 9 years' Retail experience; 4 years in England and 5 years Paris. 133/647, Office of this Paper.

FREE September 25; qualified; capable of taking charge; accurate Dispenser; lady; residential district essential. 229/16, Office of this Paper.

HOSPITAL Dispenser; Locum; qualified; from September 24. T. Irving, 66 Rowfant Road, Balham, S.W.

ILFORD or district preferred; unqualified; married; Counter, Dispensing, Photographic, Stocks; experienced. D'eath, 506 Green Lane, Goodmayes, Essex.

JUNIOR (Part I) requires situation in London or suburbs; 4 years' high-class experience in Dispensing and Counter work; disengaged. Mack, 33 Croydon Road, Penge, S.E.20.

LADY Dispenser-Book-keeper (Hall) requires post with Doctor or Institution; whole or part time; moderate salary; 4 years' experience; London or Brighton preferred. Colton, 65 Dowanhill Road, Catford.

LADY Clerk, experienced, desires post as Book-keeper; smart at figures and balancing; knowledge of trade; highest references; moderate salary. "A. D. S.," 448a Streatham High Road, S.W.

LADY requires post with Chemist; Counter, Dispensing; 7 years' experience. Williams, "Bracondale," Ashcombe Park Road, Weston-super-Mare.

LADY, unqualified, desires post; 10 years' experience, Counter, Dispensing, etc. "Aspirin," 36 Fitzwilliam Road, Clapham, London, S.W.4.

LADY Dispenser (Hall), 24, requires post with Doctor; 3 years' experience; or willing to gain experience with Chemist; good references. Miss Wilson, Little Waltham, Chelmsford, Essex.

LOCUM or permanency (Hall Certificate); wide experience; reliable and trustworthy; free September 8. "Locum," 309 London Road, Croydon.

LOCUM; qualified; elderly; disengaged 18th inst. Hearn, 22 Landseer Avenue, Manor Park, E.12.

LOCUM; experienced; abstainer; take entire charge; excellent references; moderate salary; town or provinces. "Pharmacist," 335 Lea Bridge Road, Leyton, E.10.

LOCUM; now; capable; middle-aged; abstainer; sold own business; moderate terms; anywhere. Cart, 156a Town Street, Rodley, Leeds.

LOCUM or Manager; qualified; Counter, Dispensing and Photo; disengaged September 24. "Chemist," 32 Fairmount Road, Brixton Hill, London, S.W.

LOCUM; qualified; experienced; anywhere; highest references; free. 80 Brookbank Road, Lewisham, S.E.

MANAGER or Locum; qualified; reliable; over 20 years' experience, mostly West-End; disengaged September 30. "Pharmacist," 81 Camden Road, N.W.1.

MANAGER, Senior or Locum; qualified; 20 years owner; widower; up-to-date; trustworthy; thoroughly experienced all branches; seaside permanency desired, but optional; disengaged from September 22; undeniable references. Roberts, c/o Messrs. Wm. Mould, Ltd., 28 Evesham Street, Redditch.

MANAGER; qualified; experienced; used to complete charge; good Dispenser and Salesman; highest references; free. 80 Brookbank Road, Lewisham, S.E.

MANAGER, 30, qualified, desires change; excellent references; thoroughly experienced in Dispensing, Window-dressing, Photography, Counter, etc.; good-class business in or near London preferred. 226/39, Office of this Paper.

MANAGER, fully experienced in Windows, Sales, Buying and general management; free 17th inst. "Chemist," 86 Chelmsford Road, South Woodford, E.18.

MANAGER or Locum; 38; qualified; experienced; free October 1. Charnock, 30 Rosslyn Road, Walthamstow, E.17.

MANAGER, Senior Assistant or Locum; wide experience; Birmingham area preferred; well recommended. "Drugs," 64 Hunters Road, Handsworth, Birmingham.

M.P.S., 22, tall, smart, capable, Square trained, desires London experience as Assistant; disengaged. "Pharmacist," "Chislehurst," Hornsea, E. Yorks.

M.P.S., 24, desires permanent position; high-class experience in all branches. Write Box 7718, Samson Clark & Co., Ltd., 57 Mortimer Street, W.1.

M.P.S., 28, desires situation in good-class business; excellent experience, Dispensing, Counter, Photography, etc.; splendid references. "M.P.S.," c/o The Reliance Bakery, Plymstock, Devon.

M.P.S., F.B.O.A.; expert Refractionist and business builder; first-class experience and references. Replies 230/10, Office of this Paper.

M.P.S., MANAGER; married; 34; excellent all-round experience; not afraid of work; excellent references. 229/27, Office of this Paper.

NORTH or Midlands; Manager or Locum; age 53; small capital. Hemsworth, East Street, Alford, Lincs.

PHARMACIST, 31, recently disposed of own business, desires post; Locum or permanency; West-End experience; disengaged September 25. "M.P.S.," 226/13, Office of this Paper.

PHARMACIST, 25, requires permanency in Midland area; eight years' good all-round experience; knowledge of Photography; excellent references. Masson, 72 Wigginton Road, Tamworth, Staffs.

QUALIFIED, 22, abstainer, desires position as Assistant or Branch Manager; experienced in high-class Dispensing; references; free September 22; Birmingham or district preferred. H. J. Canning, 456 Slade Road, Erdington, Birmingham.

QUALIFIED, disengaged, 5 years' experience since qualifying, 3 years Manager, smart Counterman, experienced Window-dresser and Dispenser, requires Managership of good business; salary £5 10s. 223/40, Office of this Paper.

QUALIFIED Manager, competent, reliable and energetic, of good appearance and address, desires permanent post in Midlands or South, with living accommodation preferred; age 49; 5 ft. 8 in.; abstainer; married; no family; disengaged now, or would wait for suitable berth; photo; interview. Harper, 63 Mill Street, Crewe.

QUALIFIED Manager, 26; good experience and references; West Country preferred. "Chemist," "Myrtletree," Barewell Road, St. Marychurch, Torquay.

QUALIFIED; Manager or Assistant; reliable and experienced; 8 years in last position; 38; unmarried; disengaged. 227/31, Office of this Paper.

QUALIFIED Chemist, 28, desires post as permanency or locum; London or provinces. "Chemist," 4 Grange Terrace, Wimslow Road, Rusholme, Manchester.

QUALIFIED, 25, seeks situation as Assistant or Manager; capable and reliable. Parkin, 131 Vernon Avenue, Old Basford, Nottingham.

QUALIFIED, all-round experience, as Manager, 5 years in London, excellent Prescriber, accustomed to sole management, desires permanency in London or within 50 miles radius; Wholesale or Retail. "Pharmacist," 28 Southcliffe Road, Southampton.

QUALIFIED as Manager in London; Dispensing, Counter, Photographic, etc.; excellent references; free October. 228/3, Office of this Paper.

QUALIFIED, young, Welsh, desires position; Liverpool or North Wales preferred, but not essential; 12 months' London experience; references. 229/40, Office of this Paper.

QUALIFIED Student, age 23, well educated (Inter. B.Sc.), requires position affording facilities for evening study; tall; willing; energetic; London, North, preferred. 230/5, Office of this Paper.

QUALIFIED, 25, disengaged, 10 years' good experience, seeks situation; could manage small branch. 230/7, Office of this Paper.

RELIABLE, unqualified Assistant, age 40, requires a permanent situation; 9 years' reference from two employers and an excellent recommendation from present firm; well experienced in every department of the business; my up-to-date work is sure to increase the turnover of a business; negotiations invited at once with a good firm. "Forward," 227/25, Office of this Paper.

STUDENT, 25, requires part-time work; evenings and/or Saturdays; London, S.W., or suburbs. Starling, c/o Turton Green, Henley-on-Thames.

SUPERINTENDENT or Manager; qualified; experienced; disengaged; moderate salary. "Pharmacist," 27 Campbell Road, Stoke-on-Trent.

TEMPORARY, or permanency preferred; disengaged; unregistered; thoroughly experienced; good references; moderate salary. "Tyler," 35 Acland Street, E.14.

UNQUALIFIED; age 26; 11 years' good all-round experience in Dispensing and Counter and Photographic work; excellent references; married; disengaged September 15. R. Wellington, 39 Lavender Gardens, Clapham Junction, S.W.11.

UNQUALIFIED, 35, married, adaptable, energetic, good Salesman, seeks permanency. 227/19, Office of this Paper.

UNQUALIFIED, 22, tall, 6 years' Dispensing, Counter, Photo experience, requires post; references; disengaged. Hodgson, 22 Carnot Street, York.

UNQUALIFIED (male) as Improver; tall (passed Part I); rapid Counter and Dispensing; Derby preferred, not essential. 228/40, Office of this Paper.

WANTED, position as Manager or Assistant; unqualified; age 30; tall; good appearance; 4 years own pharmacy; good reference; disengaged September 16. "A. W.," Rexall Pharmacy, Whitby, Yorkshire.

WEST Riding Yorkshire, or Derby; referred subject; desires permanency; excellent experience; references, etc., on application; free one month. 228/9, Office of this Paper.

YOUNG Qualified Assistant, tall, desires engagement, London or suburbs, October 1; six years' all-round experience in all branches; good references. Full particulars from Rippin, 25 Woodcote Grove Road, Coulsdon.

YOUNG Lady, age 17, seeks post in Leeds or district: two years' experience; Counter, Dispensing, etc. Apply Barnes, Chemist, Horsforth, nr. Leeds.

WHOLESALE.

LADY (Hall); disengaged; practical knowledge of Perfumery, Hairdressing, Toilet and Beauty Preparations; for many years in Perfumery Laboratory of West-End store. Gilderson, 7 Oaklands Park Avenue, Ilford.

ADVERTISER, over 20 years' Wholesale experience, wishes to represent good House, Drugs, Oils, Patents, etc.; Lancashire, Cheshire area. 226/23, Office of this Paper.

AMBITIOUS young Chemist Assistant, keen for promotion, 3½ years' Retail experience, desires represent first-class house; salary, commission. 229/11, Office of this Paper.

DOES an old-established House require a trustworthy Representative; first-rate connection over Midlands, South and West of England; salary and extras. "G., 18 Clare Avenue, Hoole, Chester.

EXPERIENCED Representative, 14 years with leading London houses, desires appointment; sales or propaganda; own car; first-class references. 230/13, Office of this Paper.

GENTLEMAN, representing well-known Proprietary, Lancashire, Yorkshire, established connection, can represent another firm; part expenses and commission. 133/650, Office of this Paper.

MAN, 24, 6 years Counter, Wet and Dry Storekeeper, Checker, seeks position; smart; energetic; excellent references. "G.," 256 Camberwell Road, S.E.

PHARMACIST offers services; in or outdoor; own car. Please apply "Pharmacist," 220/33, Office of this Paper.

REPRESENTATIVE, nearly 10 years' connection with London chemists, open for engagement. 213/28, Office of this Paper.

SALES, ADVERTISING OR GENERAL MANAGEMENT.—Registered Chemist, 20 years' connection Drug trade and exceptionally wide executive experience home and abroad, desires connect with progressive house offering responsible position of control; advertiser is *au fait* with modern methods of marketing, selling, advertising and propaganda in all forms; is used to control large office and representative staff; a conscientious hard worker, with initiative and driving force; a successful record and highest credentials. Replies to "Tony," P.C.B. 5350, Office of this Paper.

SINGLE, 24, seeks position with Manufacturing Chemists (home or abroad) as Representative, or with view of representative; 7 years in Retail; able to drive. 229/12, Office of this Paper.

WANTED, position as Representative to good house; age 30; tall; good appearance; energetic; 16 years' Wholesale, Retail experience; own pharmacy 4 years. "A. W.," Rexall Pharmacy, Whitby, Yorkshire.

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